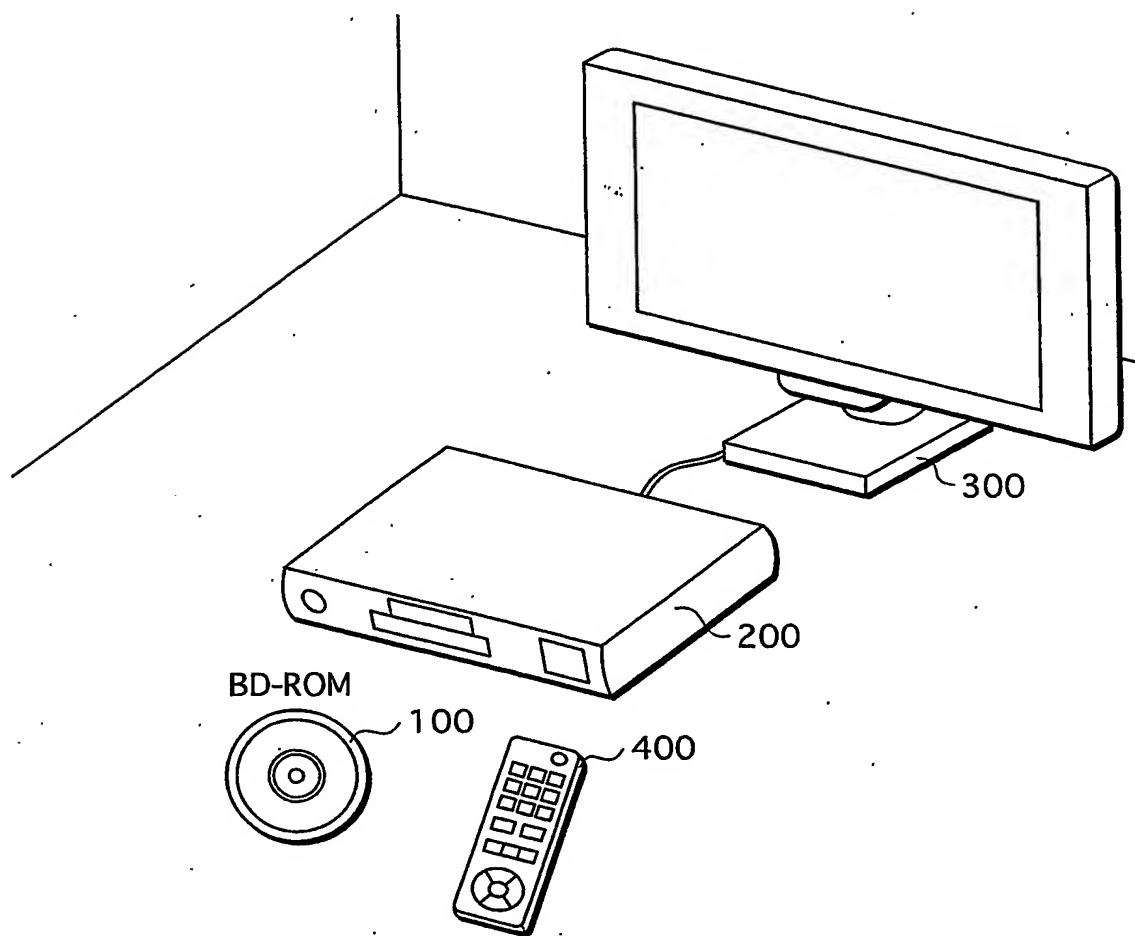
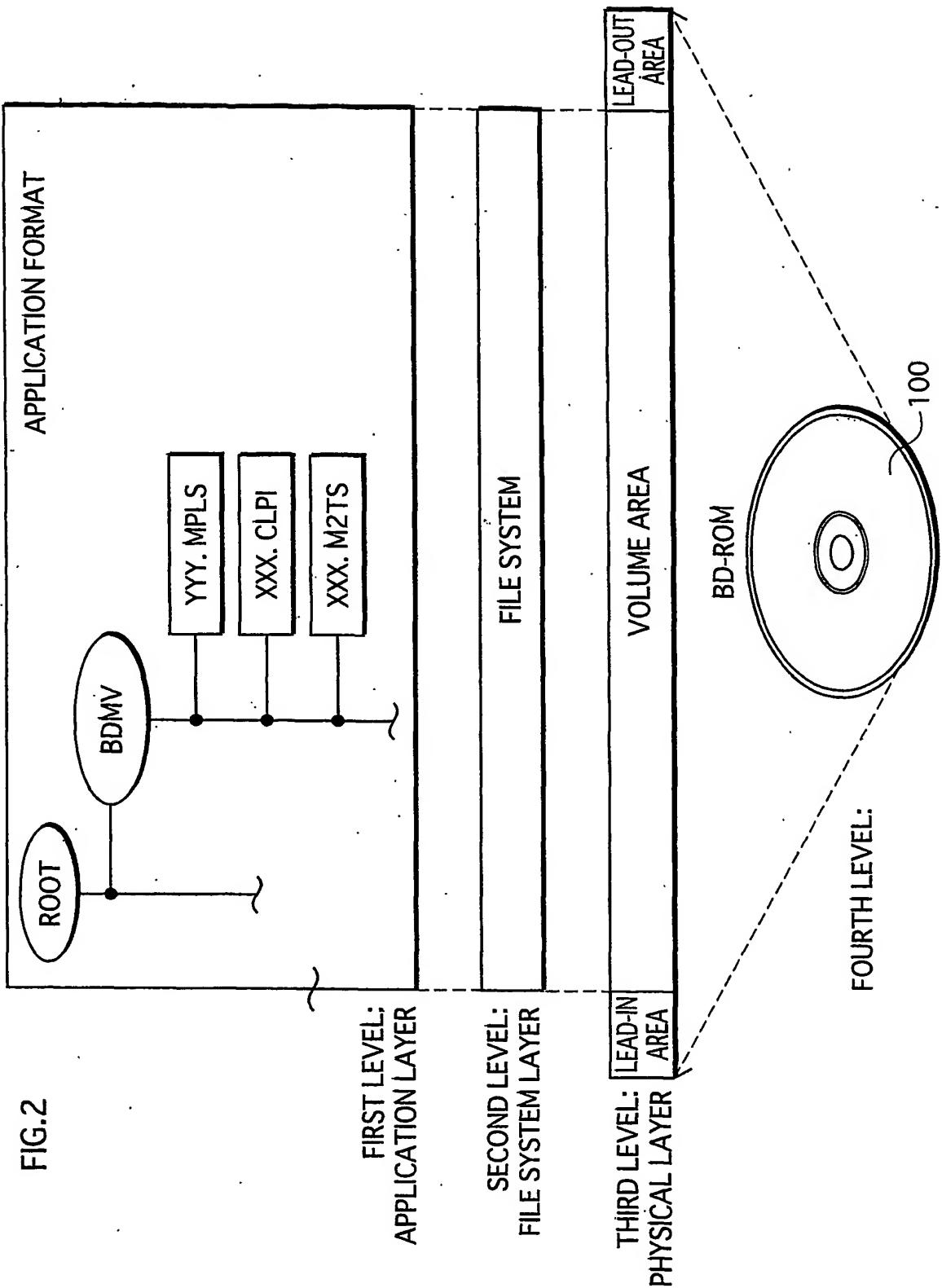


FIG.1





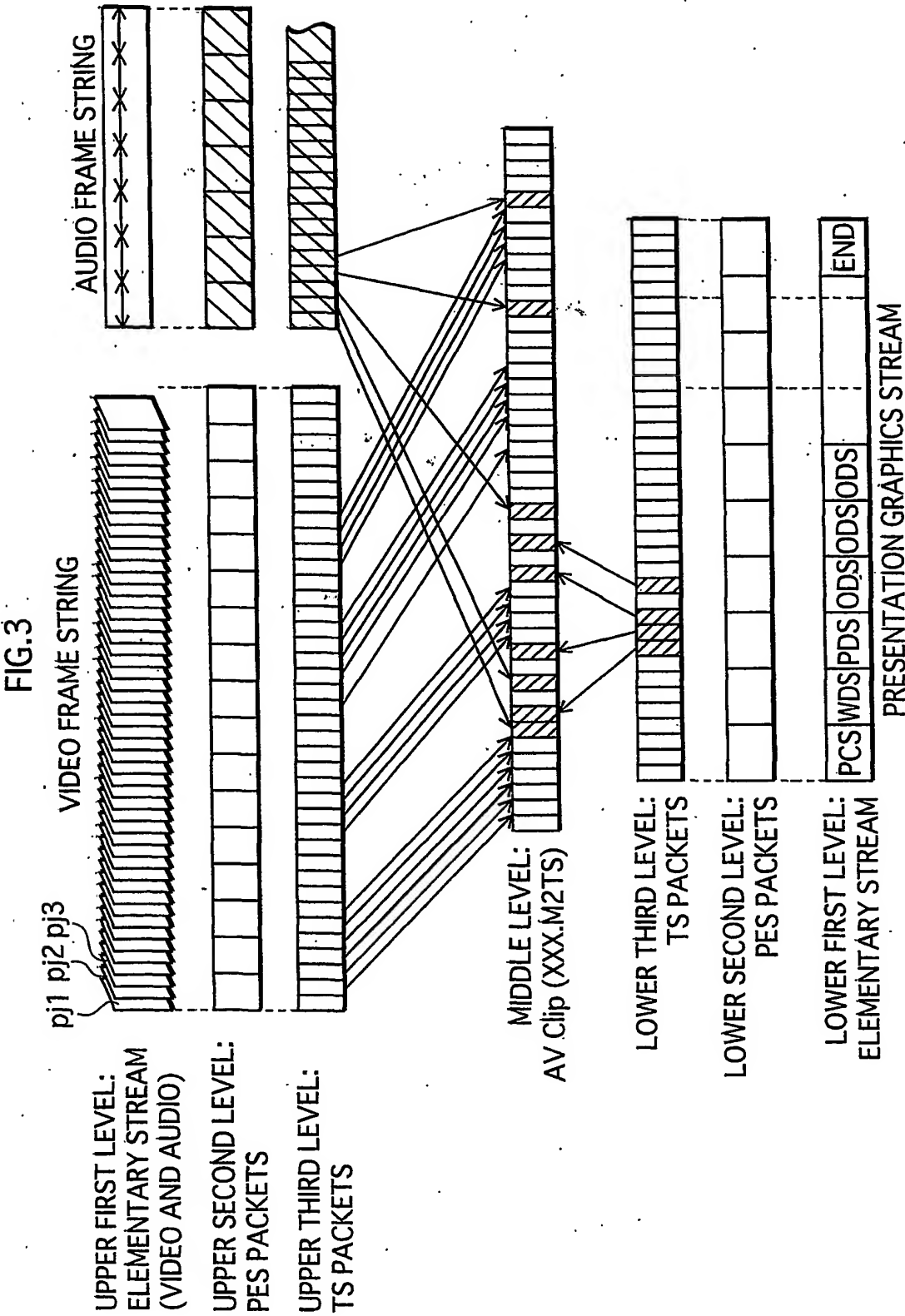


FIG. 4A

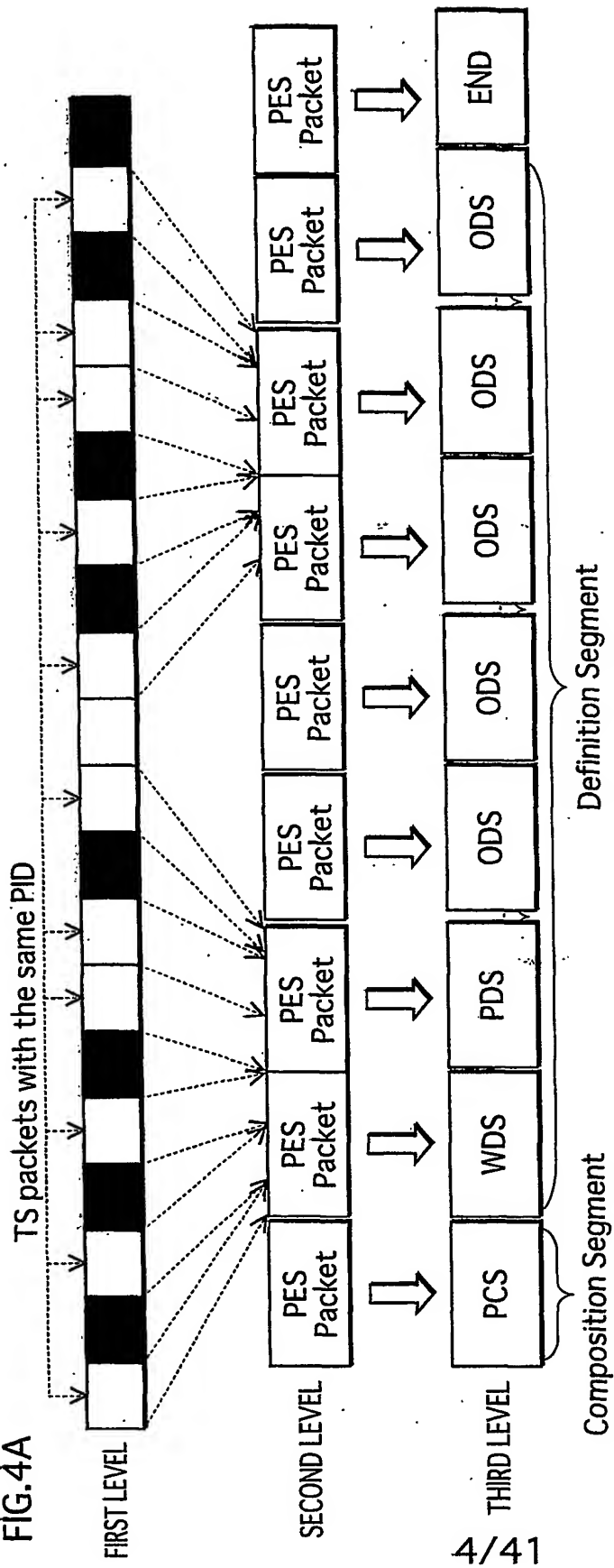


FIG. 4B

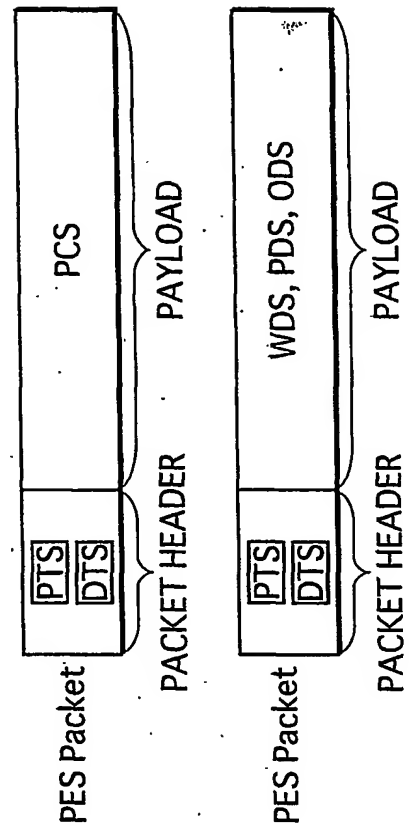


FIG.5

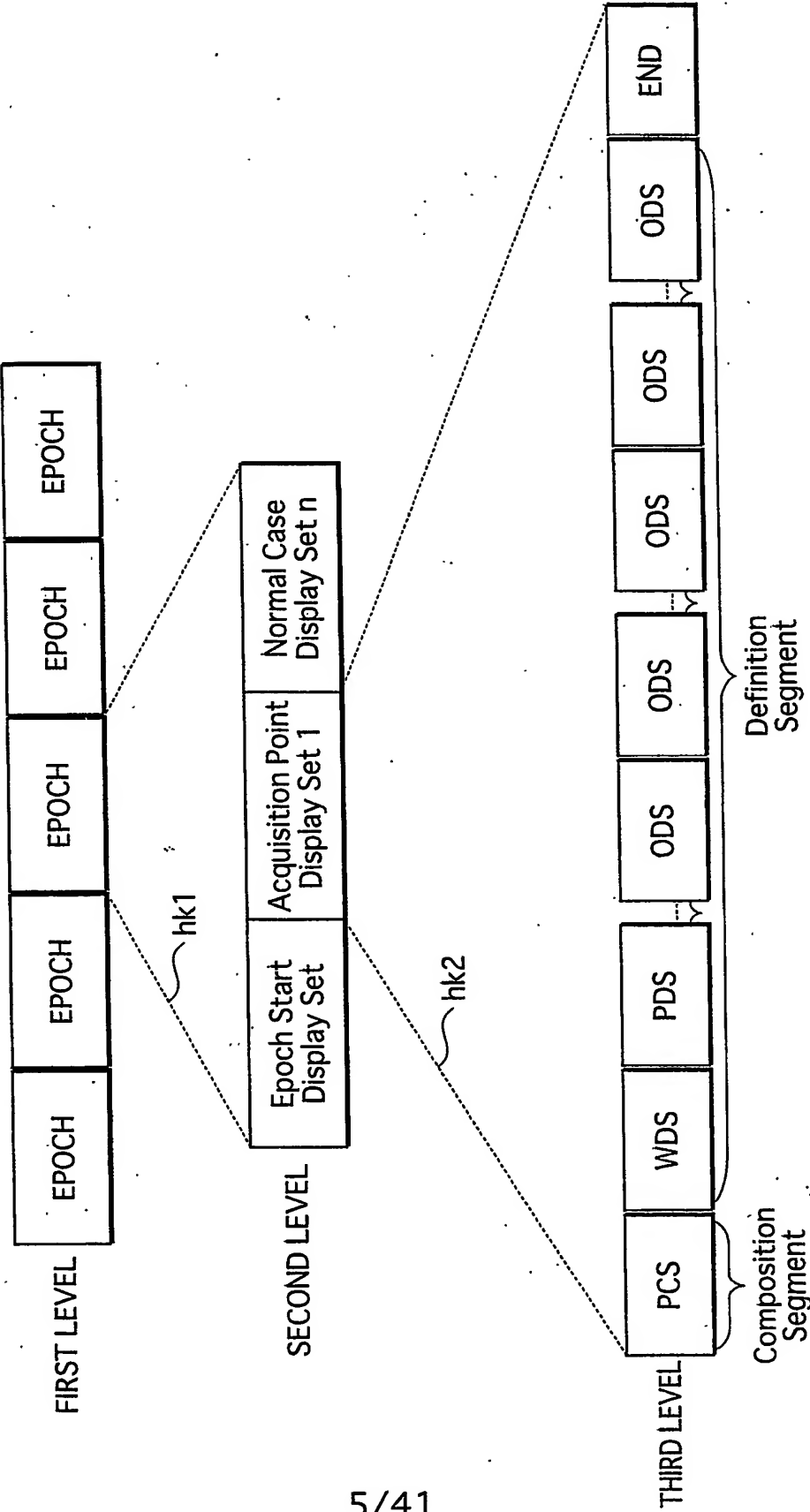


FIG.6

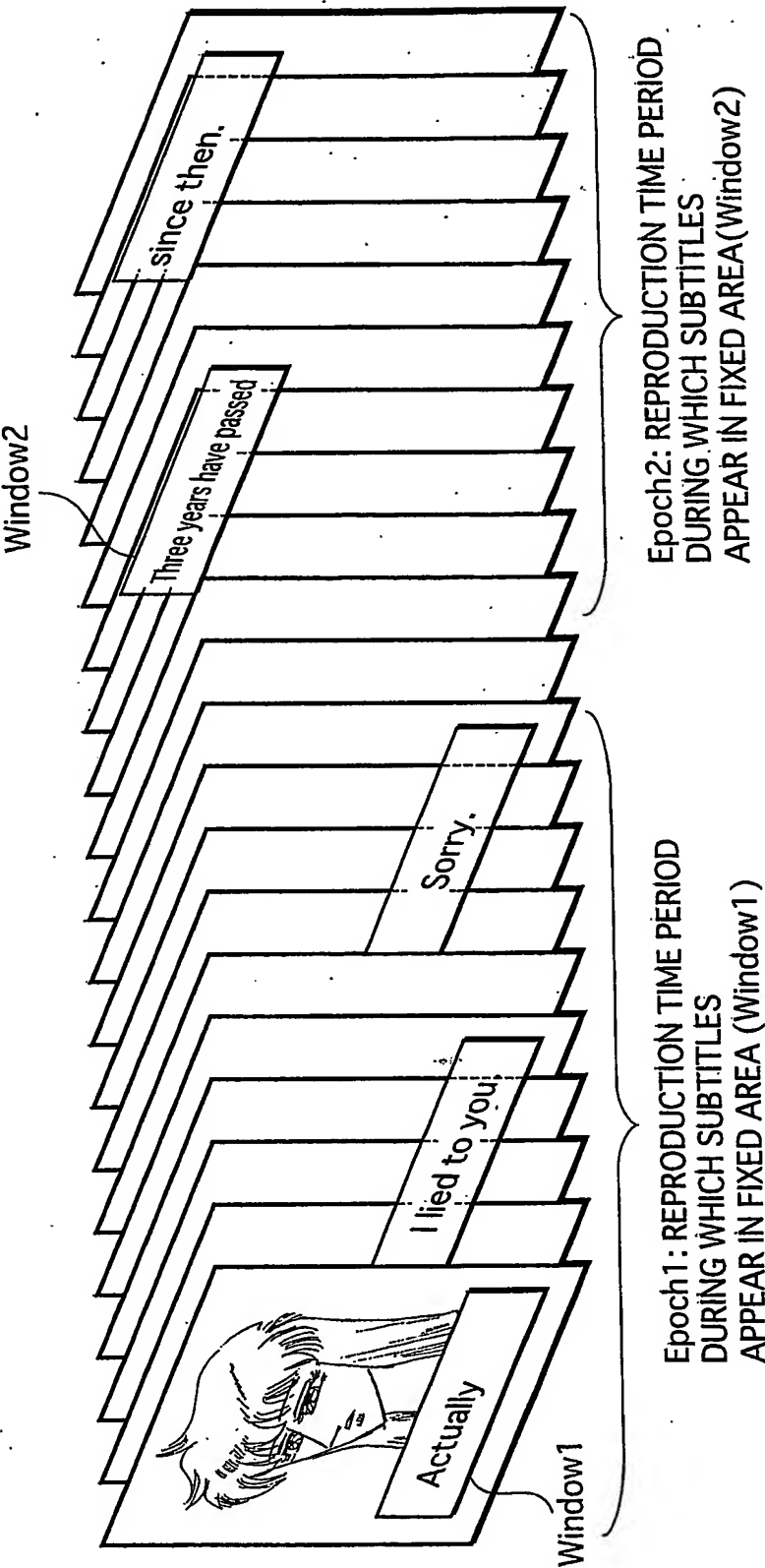


FIG.7A

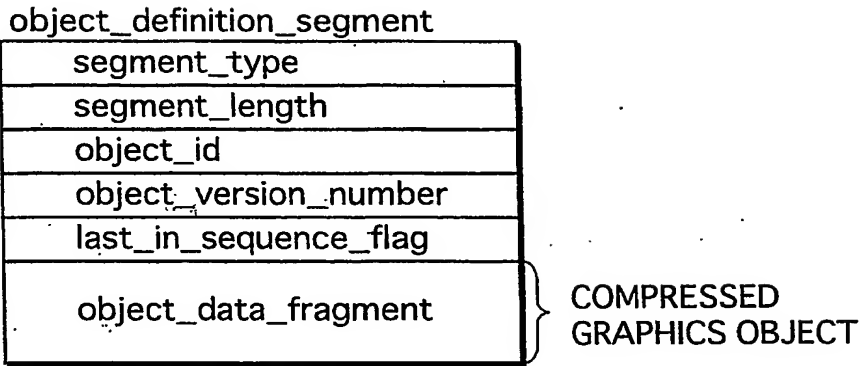


FIG.7B

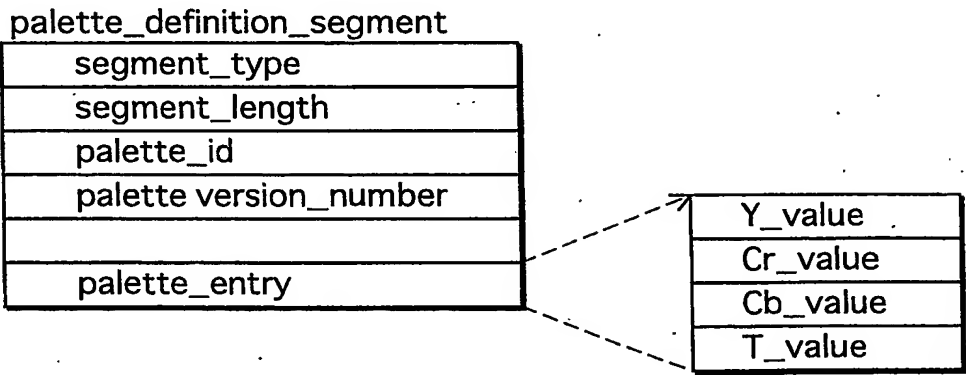


FIG.8A window_definition_segment

window_id
window_horizontal_position
window_vertical_position
window_width
window_height

FIG.8B presentation_composition_segment

segment_type
segment_length
composition_number
composition_state
palette_update_flag
palette_id
composition_object(1)
composition_object(2)
:
composition_object(i)
:
composition_object(m)

object_id
window_id
object_cropped_flag
object_horizontal_position
object_vertical_position
cropping_rectangle_INFORMATION(1)
cropping_rectangle_INFORMATION(2)
:
cropping_rectangle_INFORMATION(i)
:
cropping_rectangle_INFORMATION(n)

wd1

wd2

object_cropping_horizontal_position
object_cropping_vertical_position
object_cropping_width
object_cropping_height

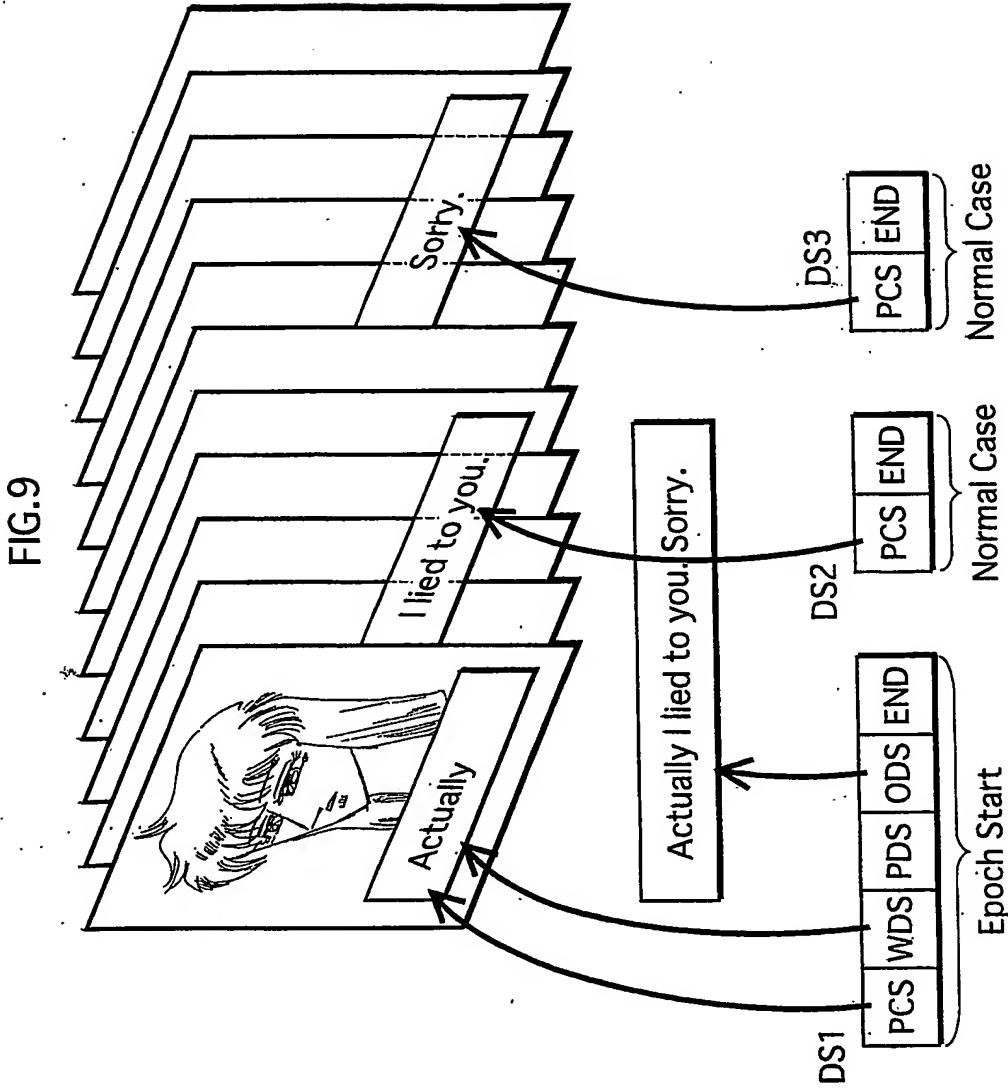


FIG.10

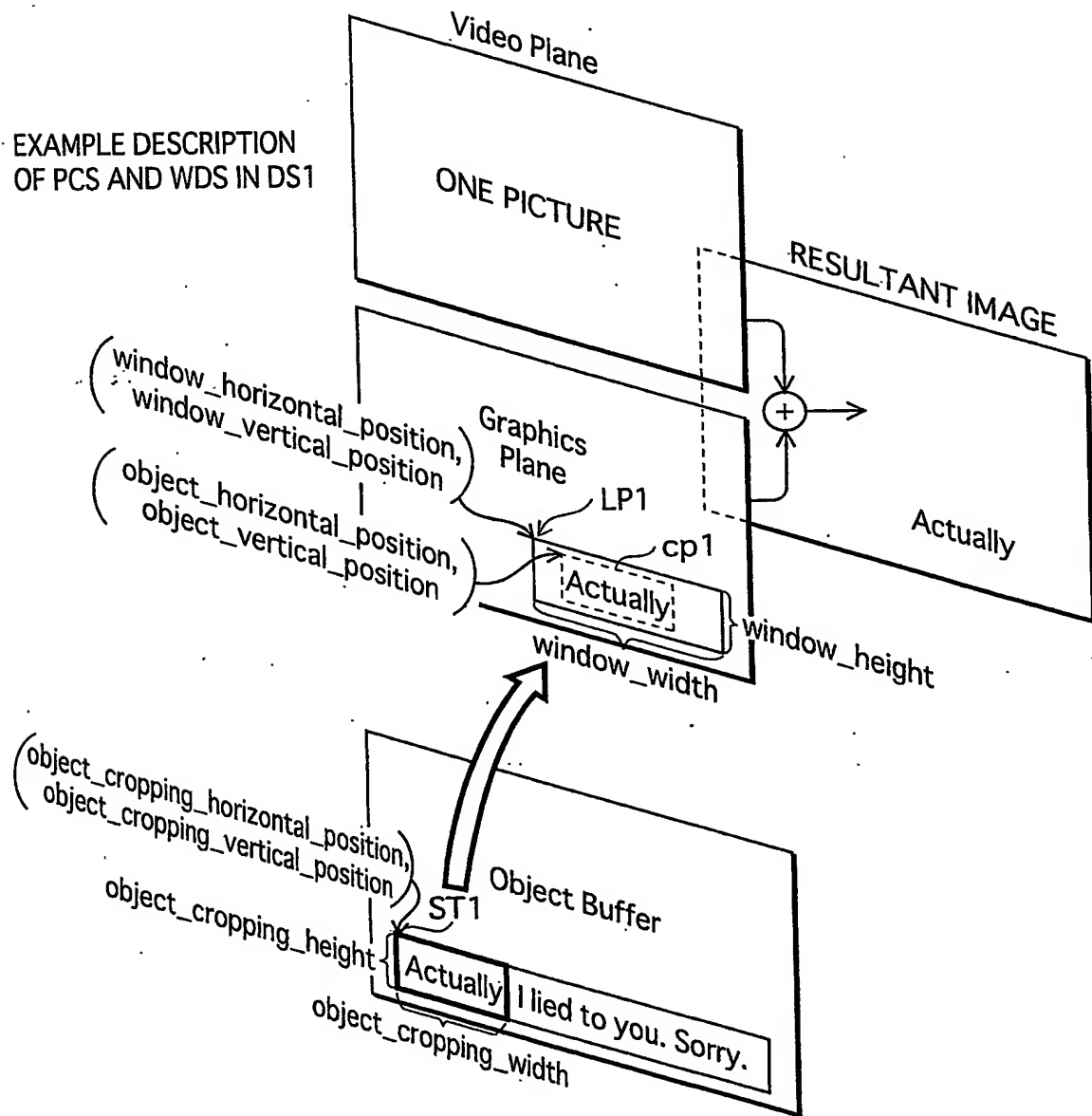
EXAMPLE DESCRIPTION
OF PCS AND WDS IN DS1

FIG.11

EXAMPLE DESCRIPTION
OF PCS IN DS2

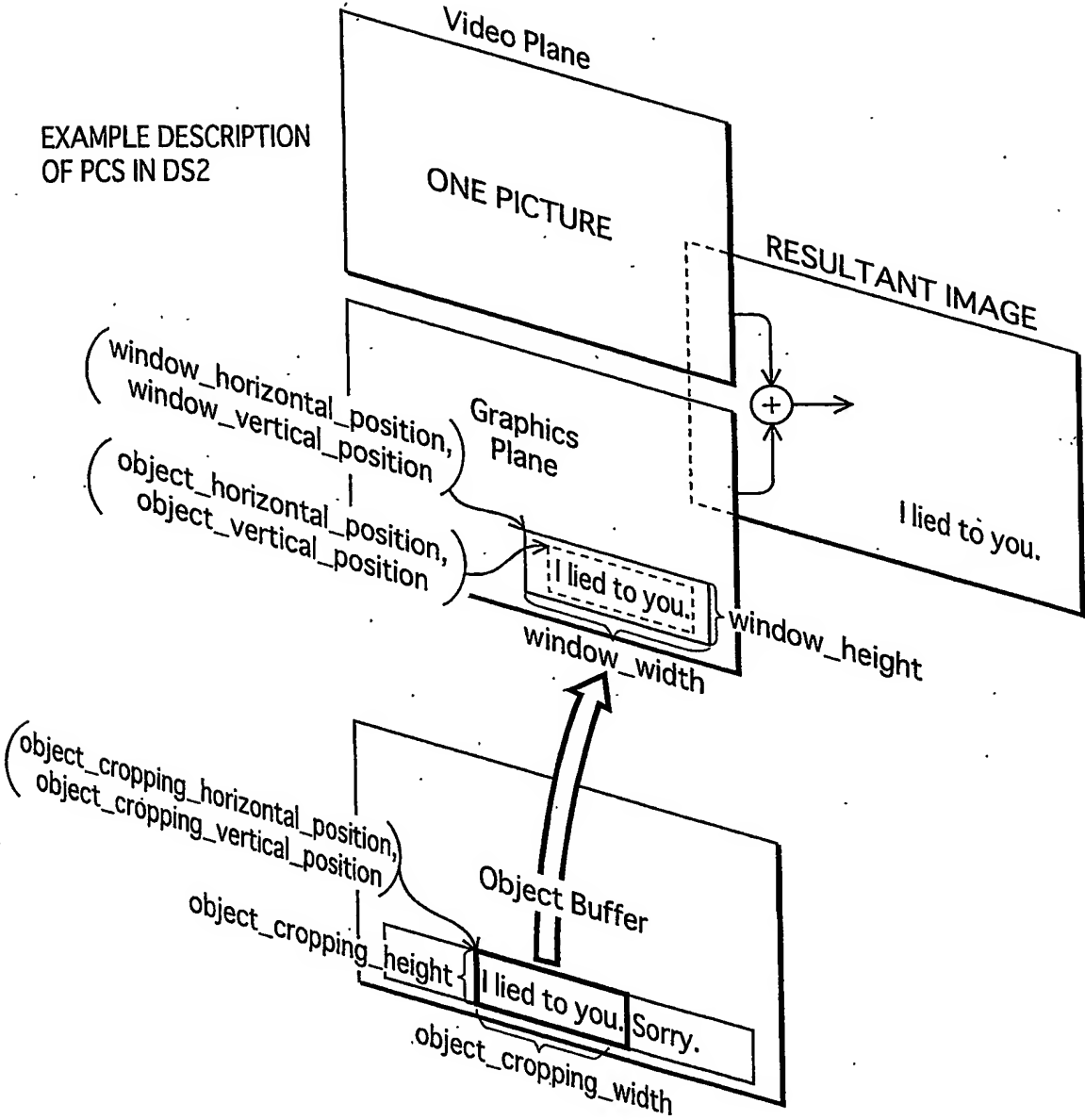


FIG.12

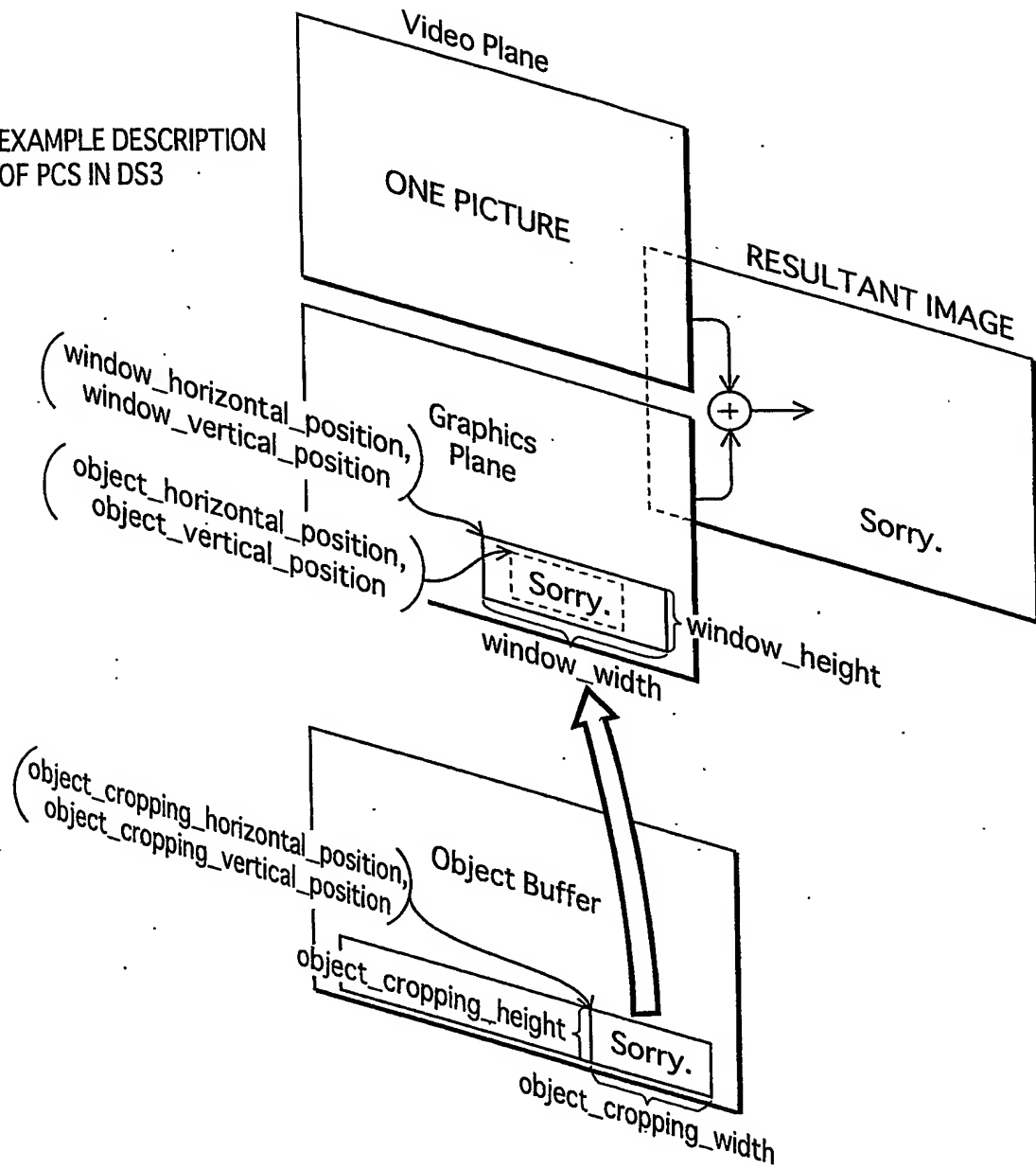
EXAMPLE DESCRIPTION
OF PCS IN DS3

FIG.13

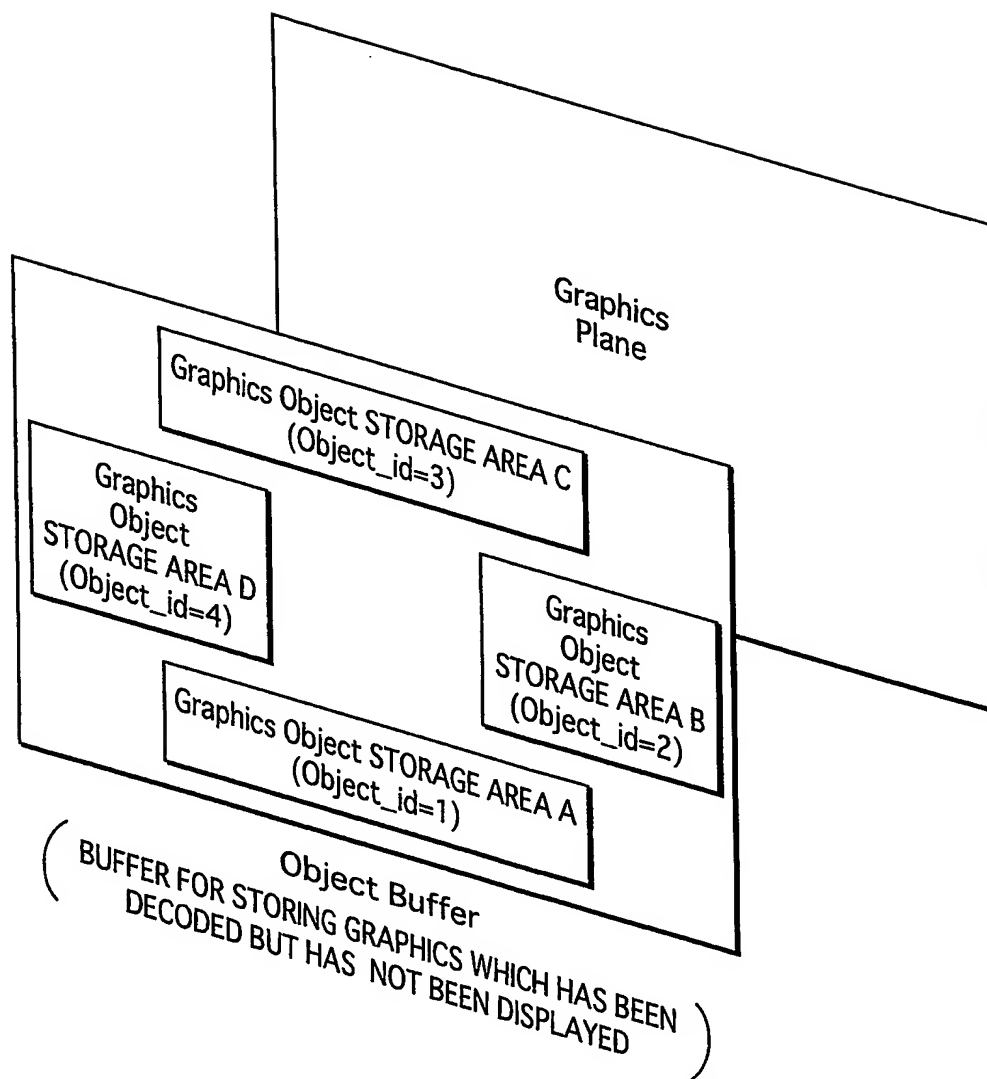


FIG. 14 $PTS(DSn[PCS]) \geq DTS(DSn[PCS]) + DECODEDURATION(DSn)$

Where:

- $DECODEDURATION(DSn)$ is calculated as follows:

```

decode_duration = 0 ;
decode_duration += PLANEINITIALIZATIONTIME( DSn ) ;
if( DSn. PCS. num_of_objects == 2 )
{
    decode_duration += WAIT( -DSn, DSn. PCS. OBJ[0], decode_duration ) ;
    if( DSn. PCS. OBJ[0]. window_id == DSn. PCS. OBJ[1]. window_id )
    {
        decode_duration += WAIT( DSn, DSn. PCS. OBJ[1], decode_duration ) ;
        decode_duration += 90000*( SIZE( DSn. PCS. OBJ[0]. window_id )//256*106 ) ;
    }
    else
    {
        decode_duration += 90000*( SIZE( DSn. PCS. OBJ[0]. window_id )//256*106 ) ;
        decode_duration += WAIT( DSn, DSn. PCS. OBJ[1], decode_duration ) ;
        decode_duration += 90000*( SIZE( DSn. PCS. OBJ[1]. window_id )//256*106 ) ;
    }
}
else if( DSn. PCS. num_of_objects == 1 )
{
    decode_duration += WAIT( DSn, DSn. PCS. OBJ[0], decode_duration ) ;
    decode_duration += 90000*( SIZE( DSn. PCS. OBJ[0]. window_id )//256*106 ) ;
}
return decode_duration ;

```

- $PLANEINITIALIZATIONTIME(DSn)$ is calculated as follows:

```

initialize_duration=0 ;
if( DSn. PCS. composition_state == EPOCH_START )
{
    initialize_duration = 90000*( 8*video_width*video_height//256*106 ) ;
}
else
{
    for( i=0 ; i < WDS. num_windows ; i++ )
    {
        if( EMPTY(DSn.WDS.WIN[i], DSn ) )
            initialize_duration += 90000*( SIZE( DSn. WDS. WIN[i] )//256*106 ) ;
    }
}
return initialize_duration ;

```

- $WAIT(DSn, OBJ, current_duration)$ is calculated as follows:

```

wait_duration = 0 ;
if( EXISTS( OBJ. object_id, DSn ) )
{
    object_definition_ready_time = PTS( GET( OBJ. object_id, DSn ) ) ;
    current_time = DTS( DSn. PCS ) + current_duration ;
    if( current_time < object_definition_ready_time )
        wait_duration += object_definition_ready_time - current_time ;
}
return wait_duration ;

```

FIG. 15

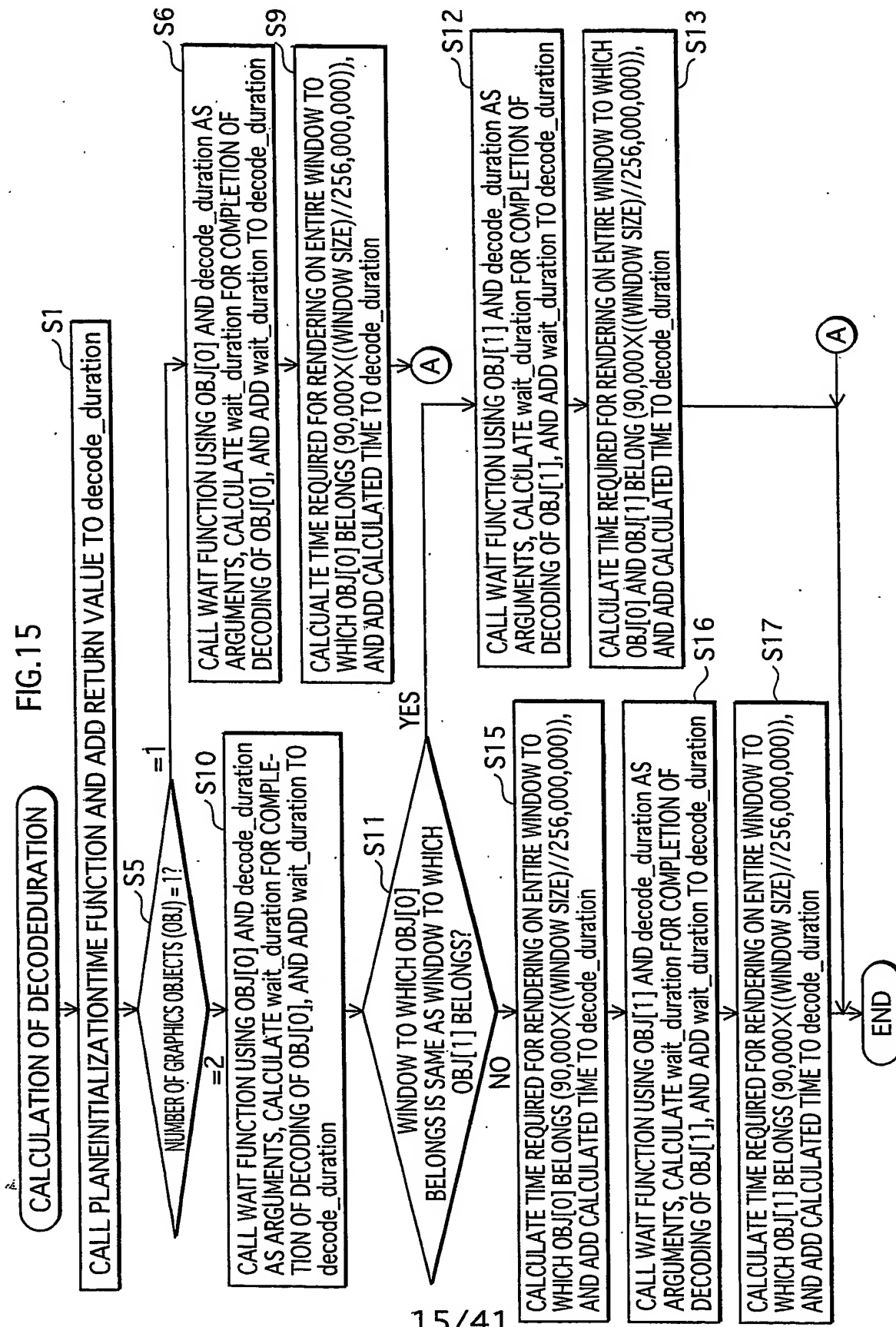


FIG.16A

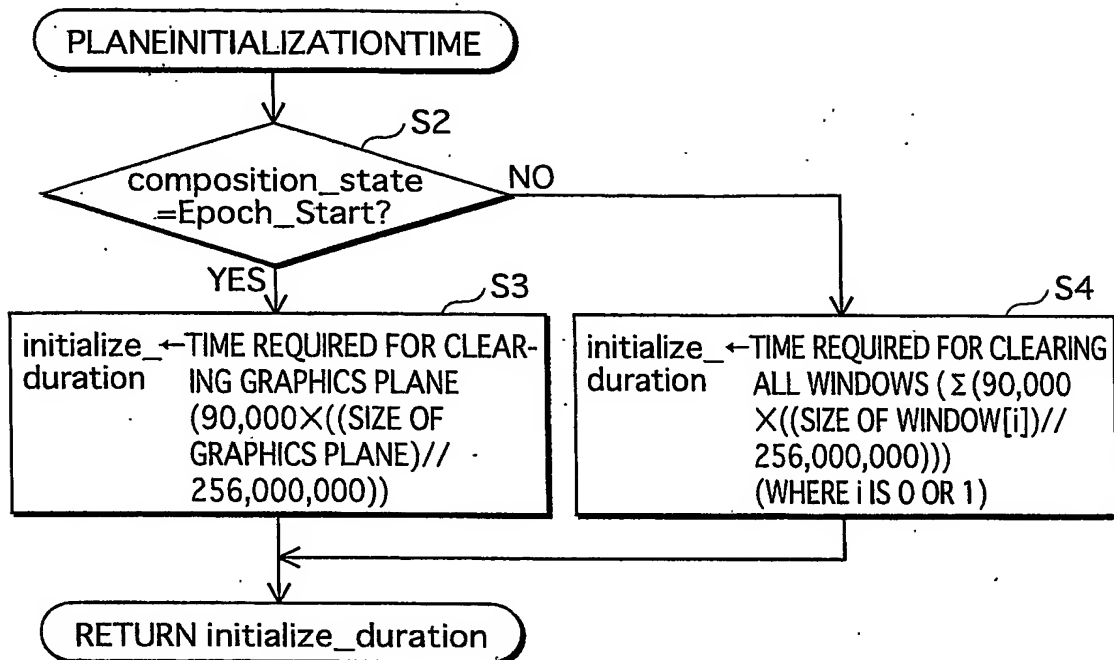


FIG.16B

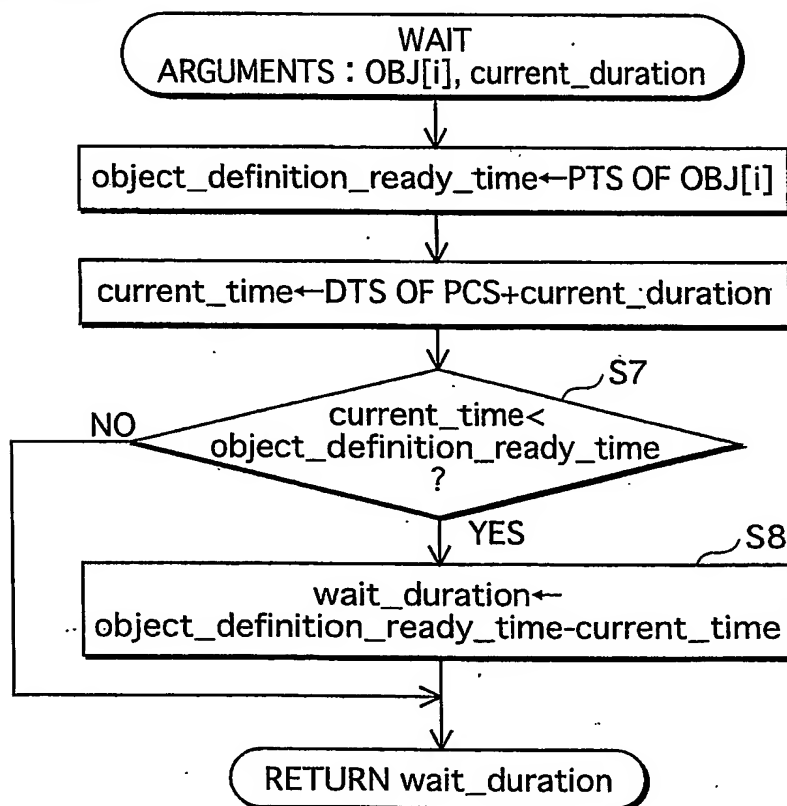


FIG.17A

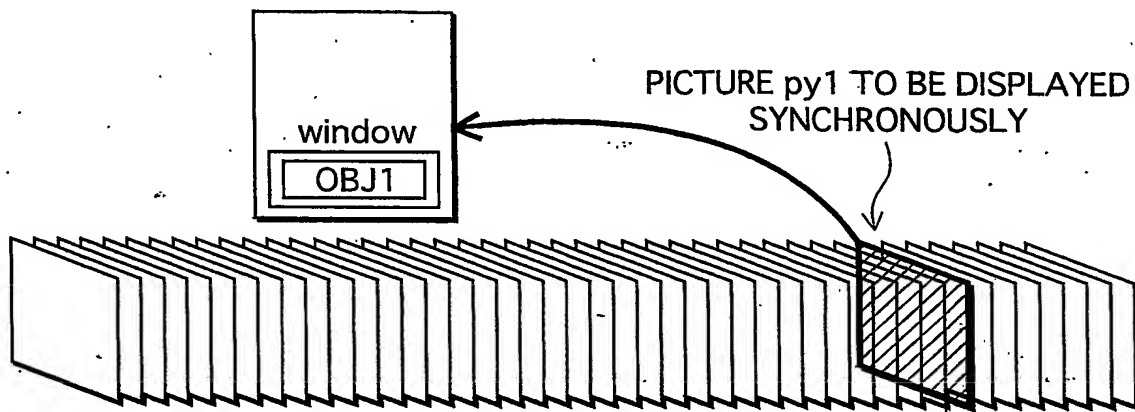


FIG.17B

DECODE_DURATION
=(2)+(3)

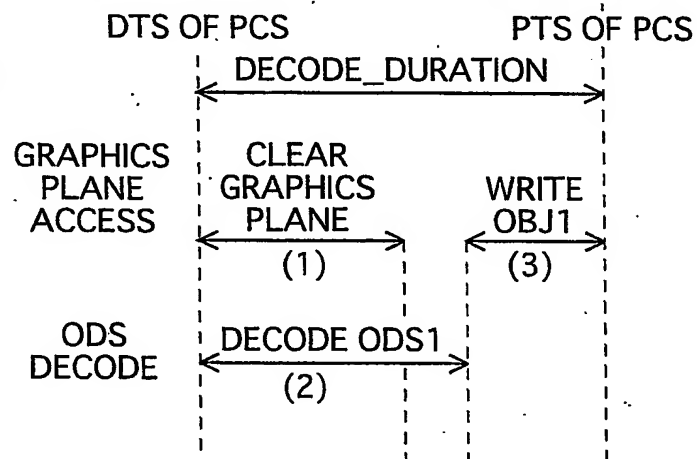


FIG.17C

DECODE_DURATION
=(1)+(3)

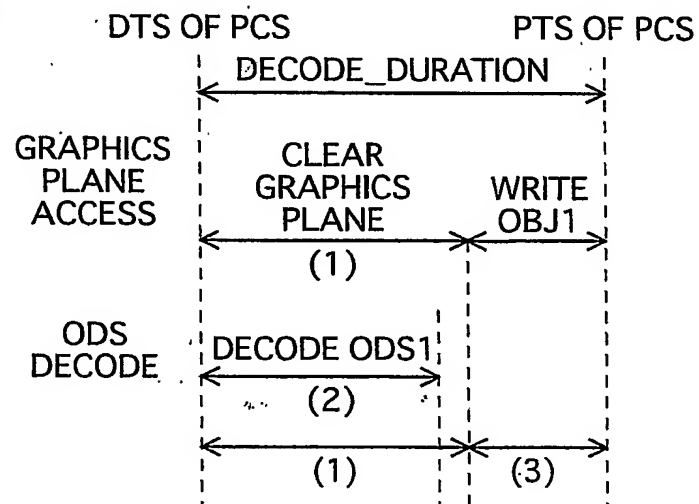


FIG.18A

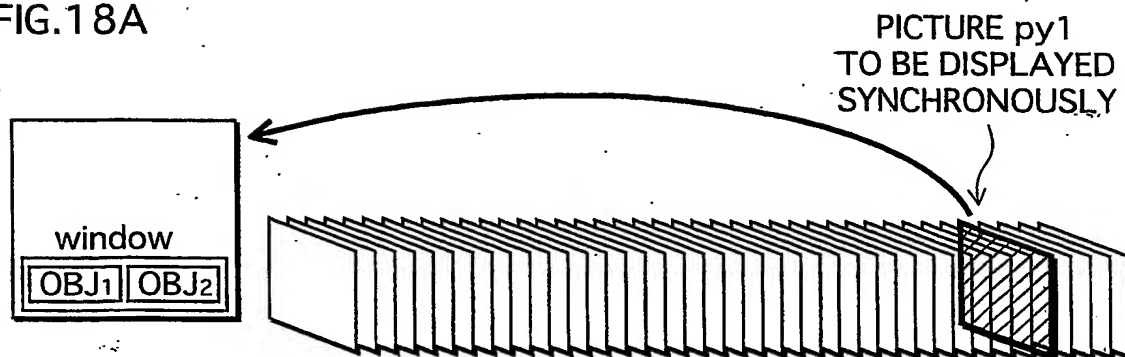


FIG.18B

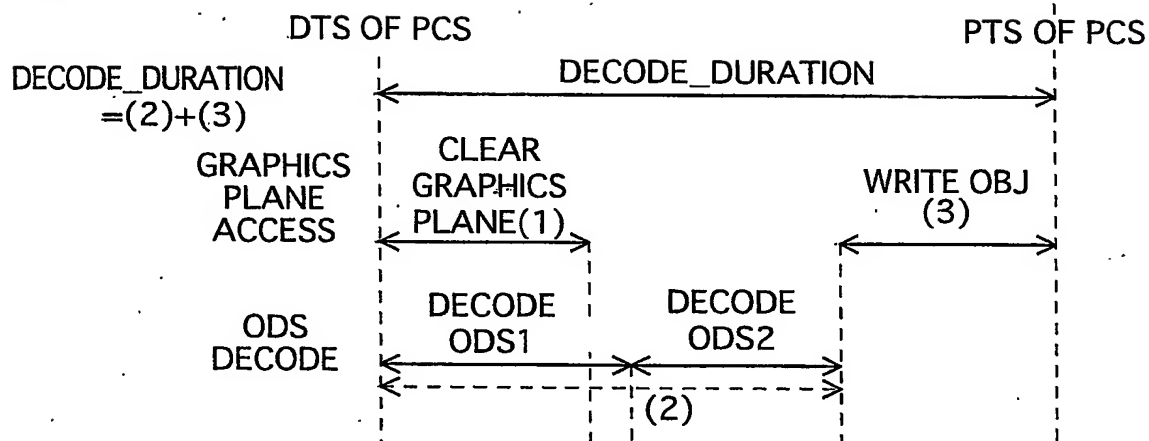
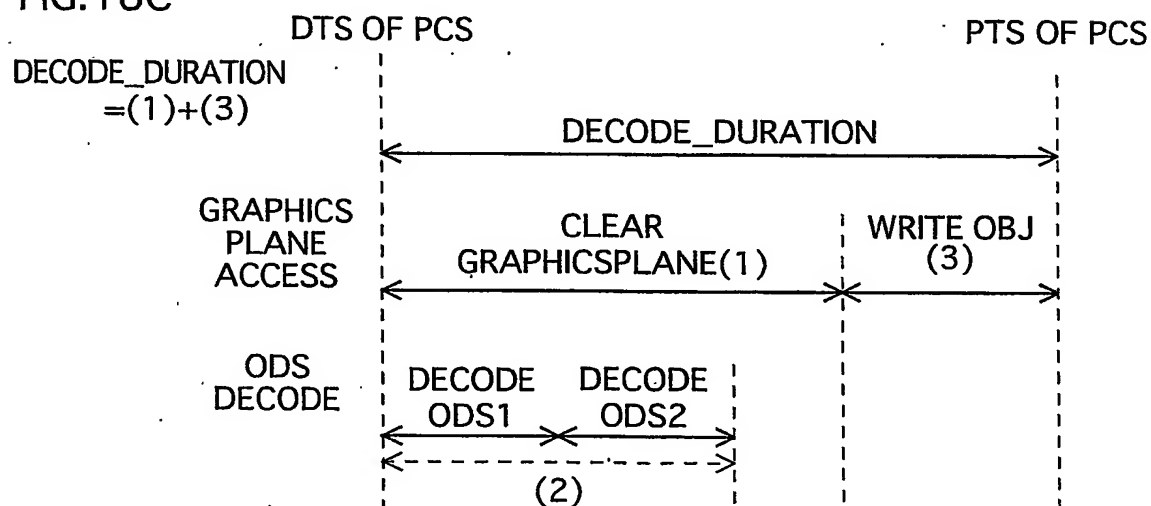


FIG.18C



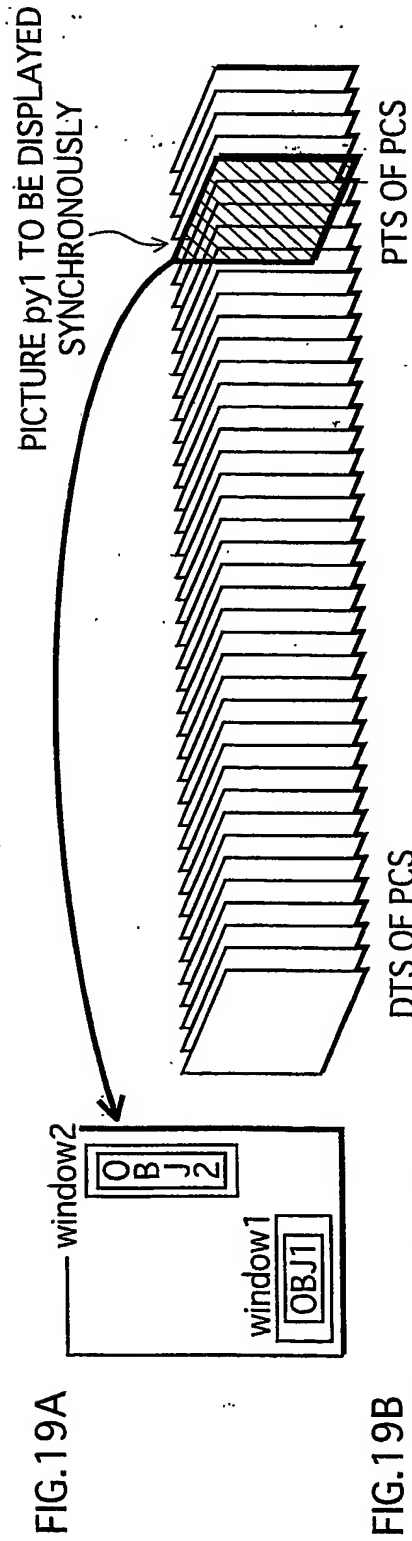


FIG.20

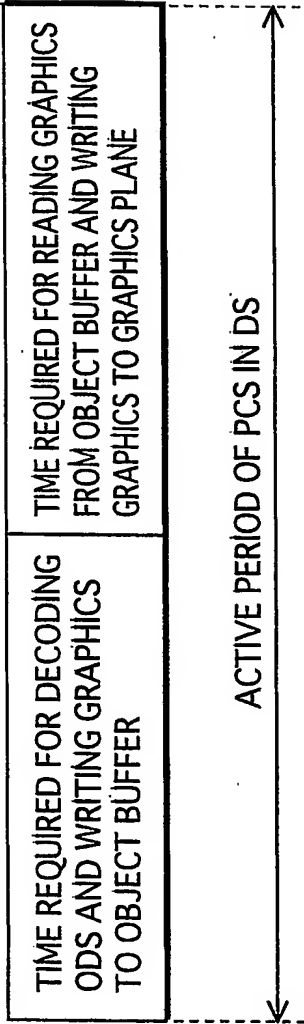
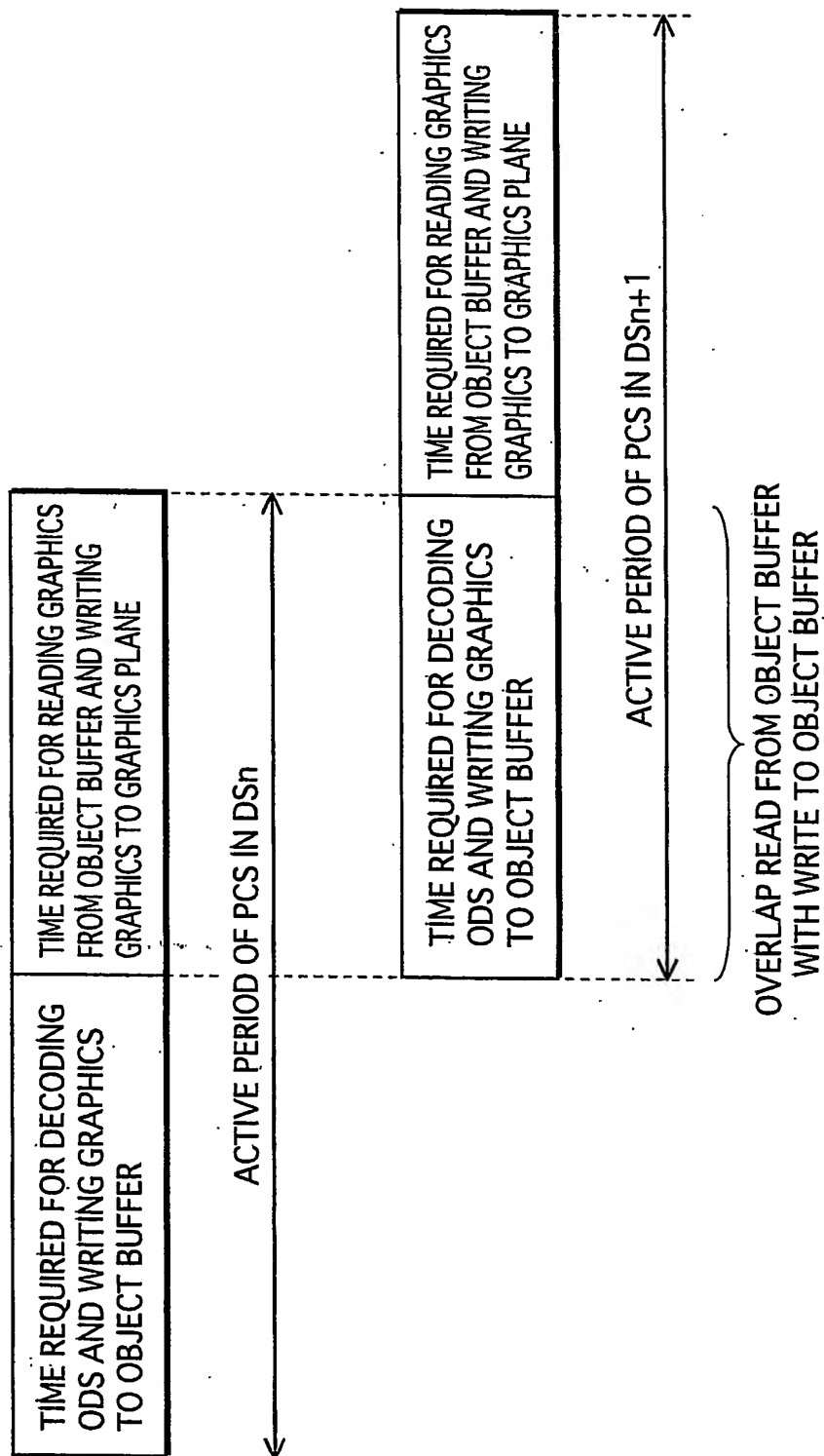


FIG.21



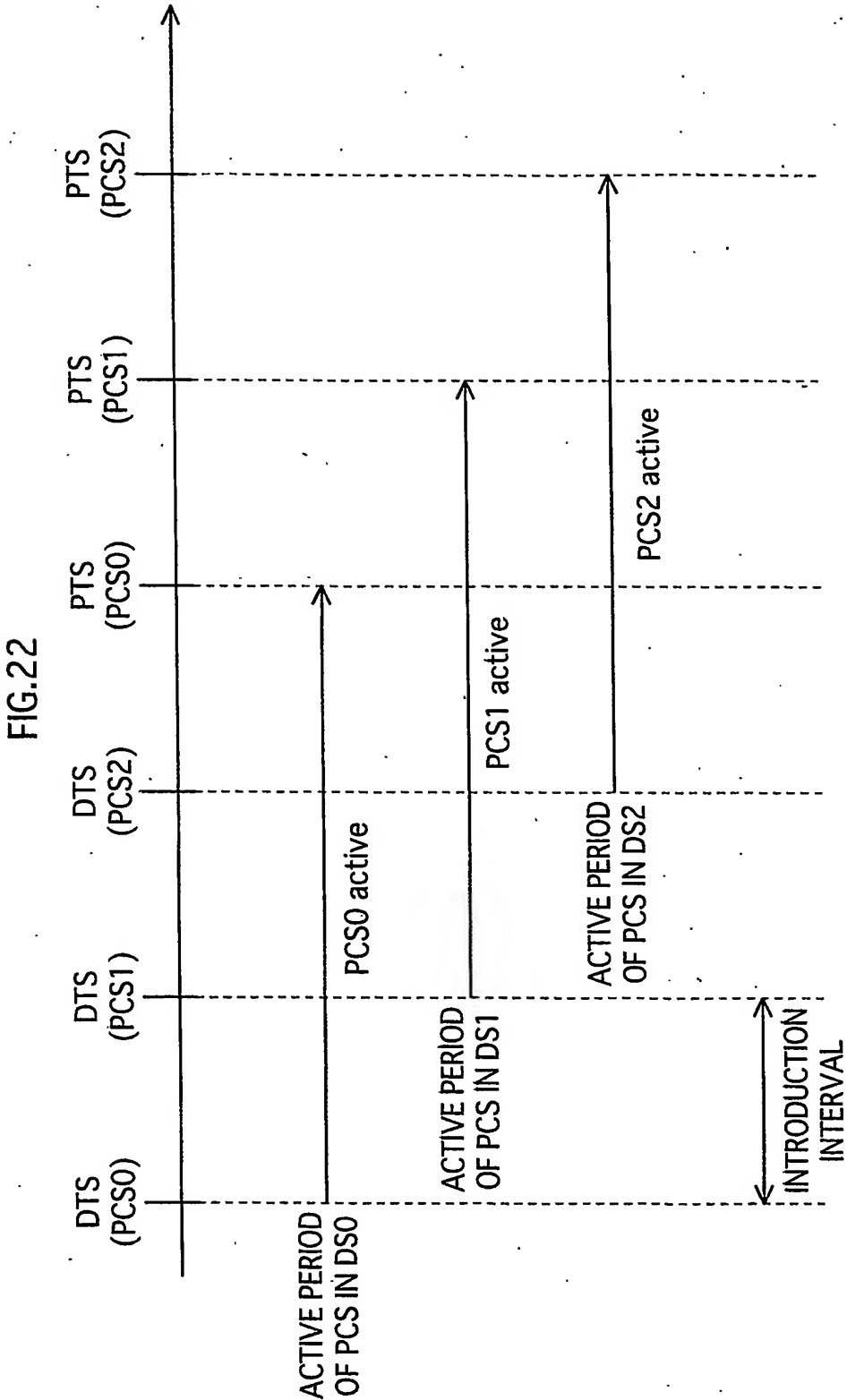


FIG.23

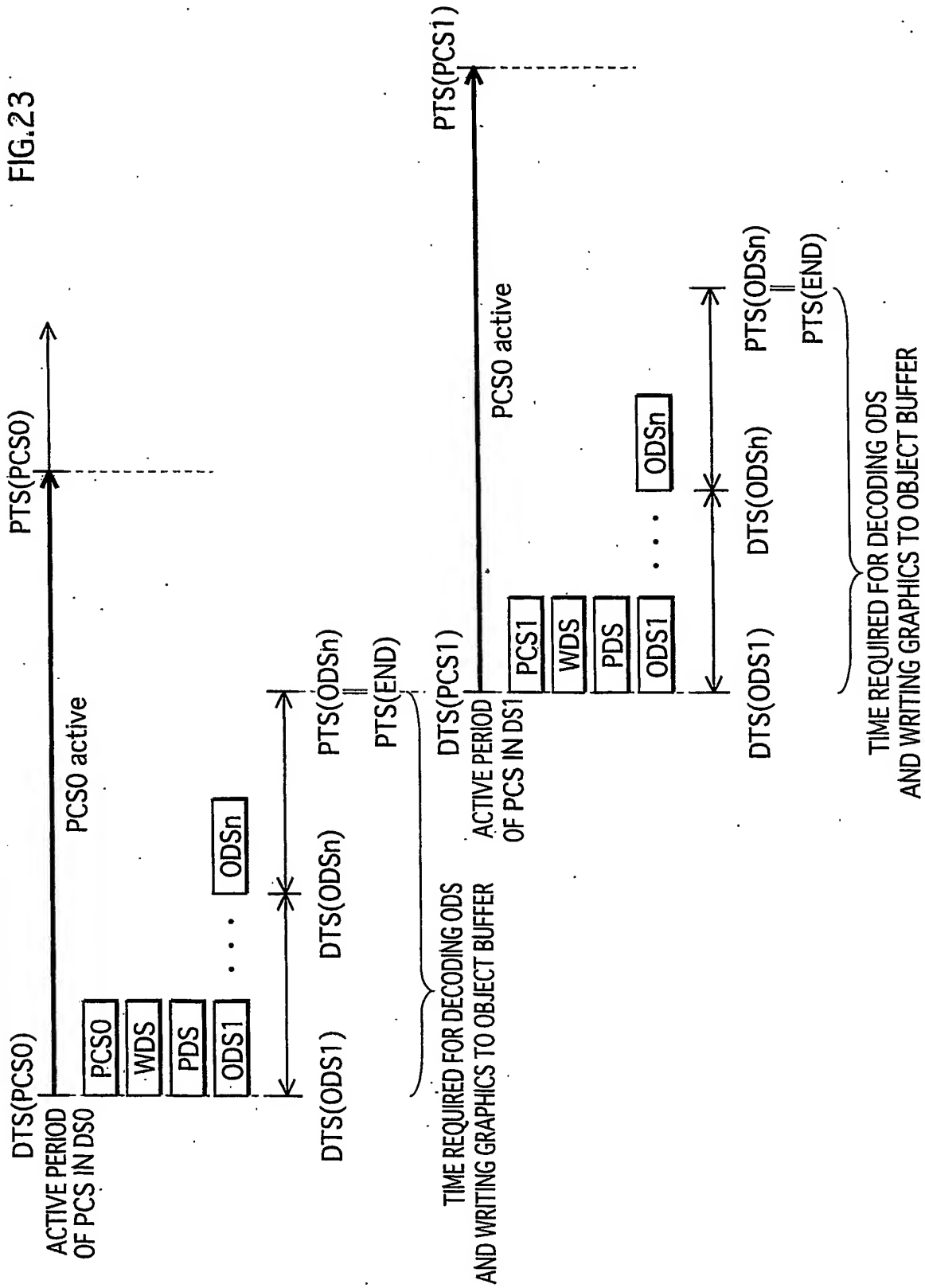


FIG.24

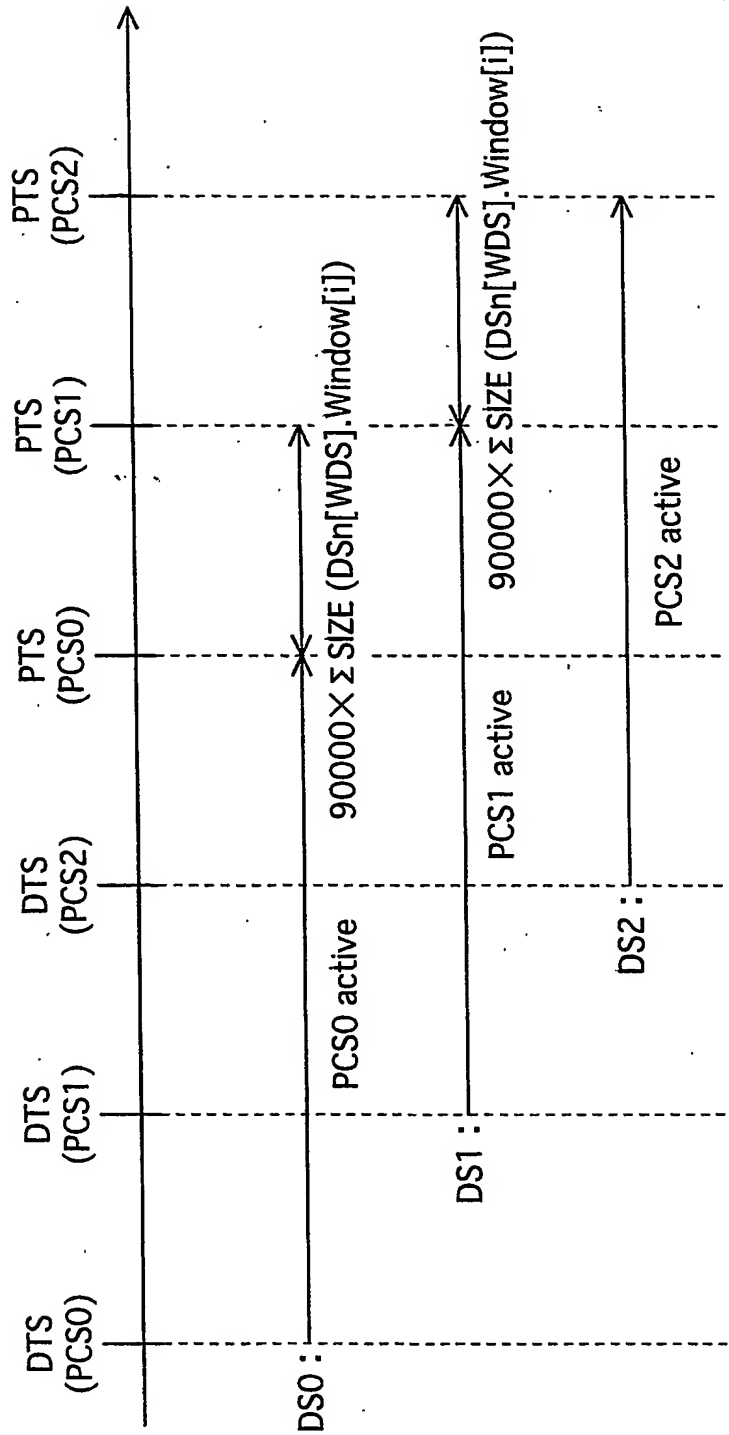
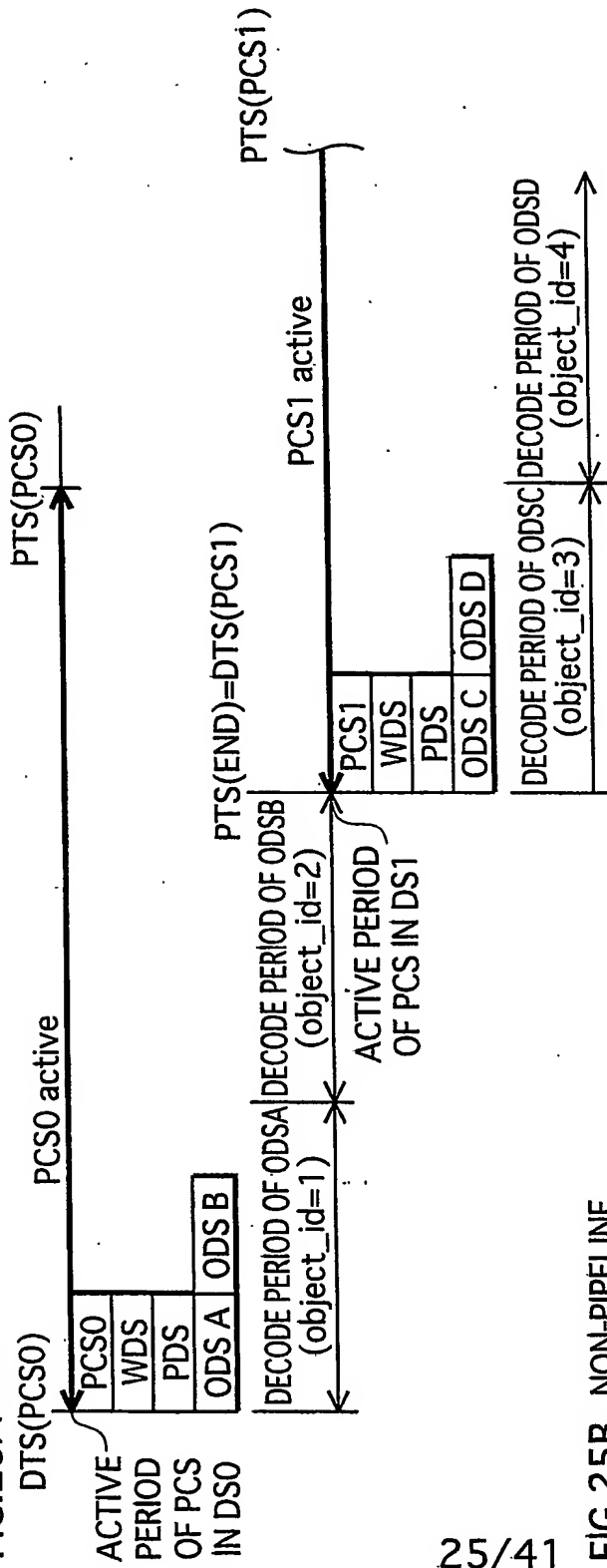


FIG.25A PIPELINE



25/41

FIG.25B NON-PIPELINE

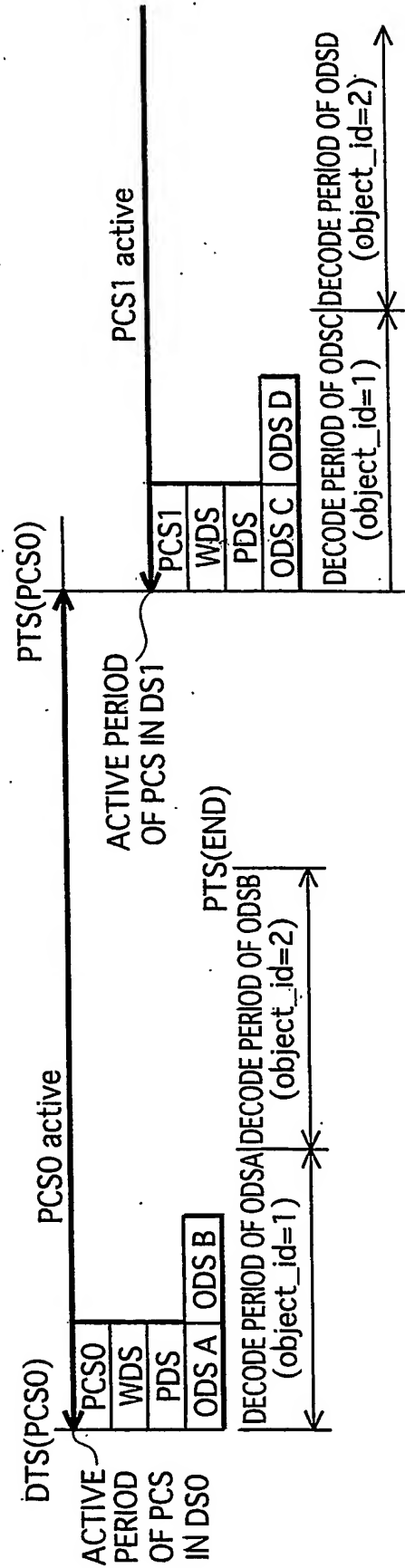


FIG.26

END SEGMENT SHOWS
END OF TRANSFER OF
ODSS IN DS

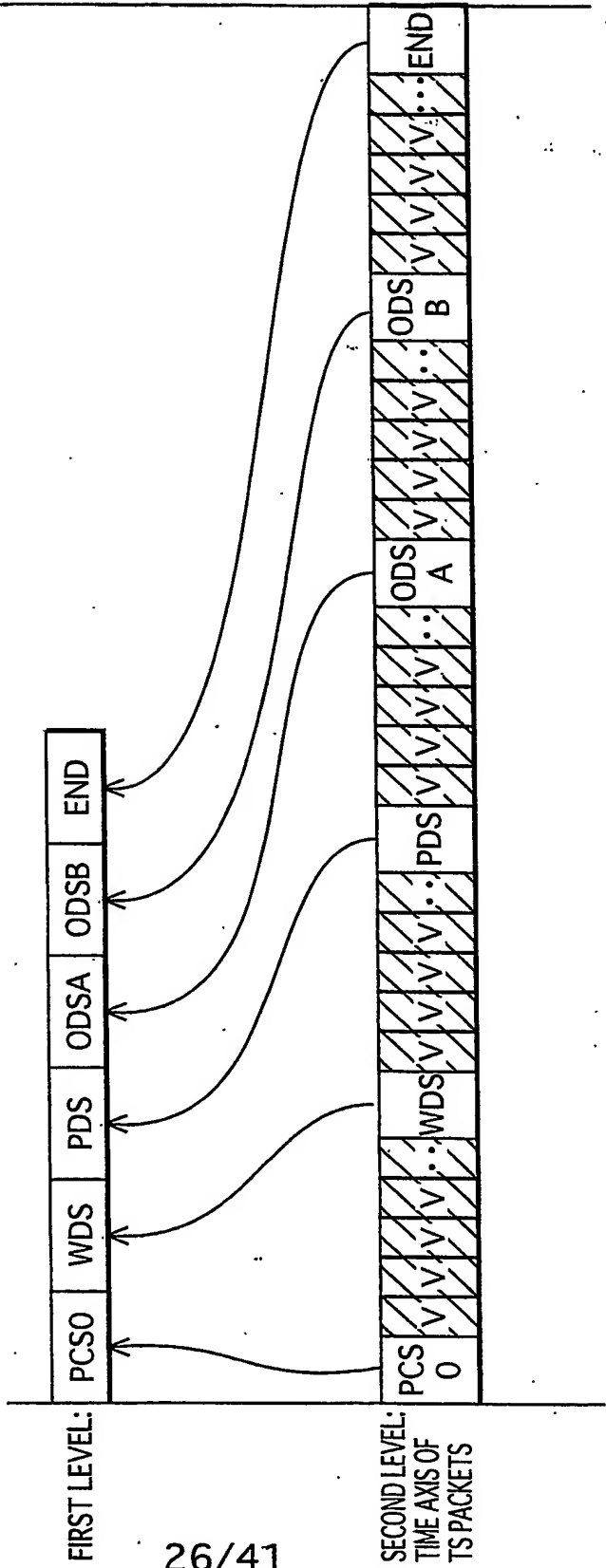


FIG.27A SCREEN COMPOSITION

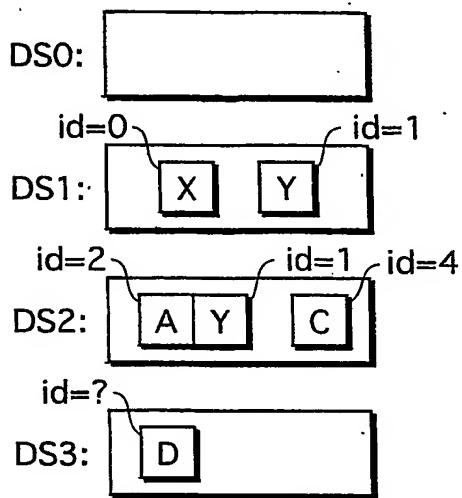


FIG.27B ACTIVE PERIOD OVERLAPPING AND ODS TRANSFER

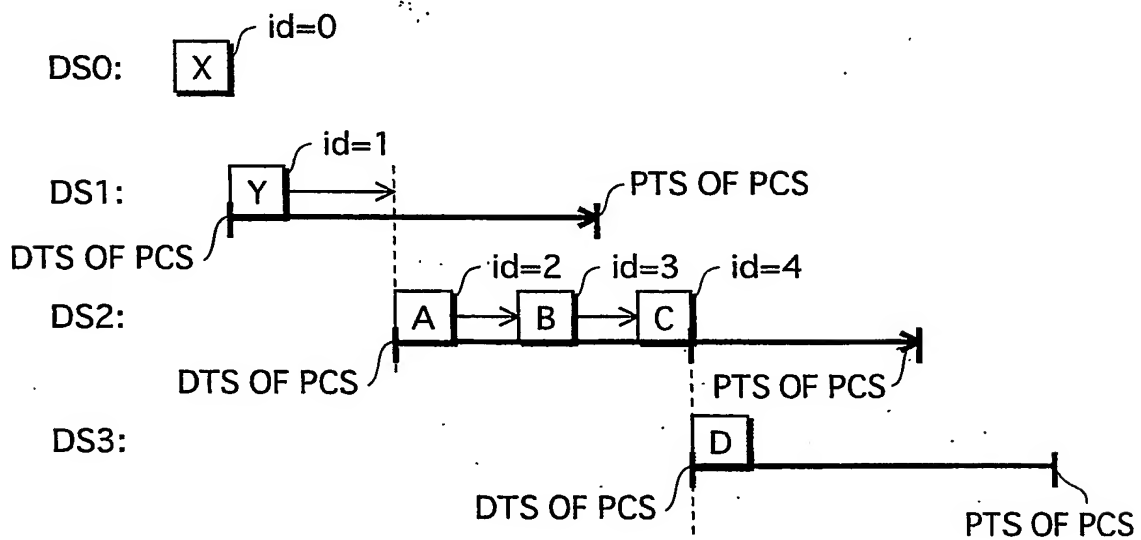


FIG.27C ARRANGEMENT IN OBJECT BUFFER

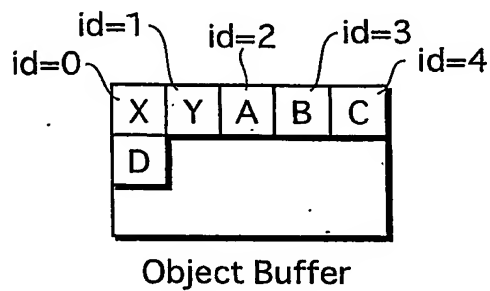


FIG. 28

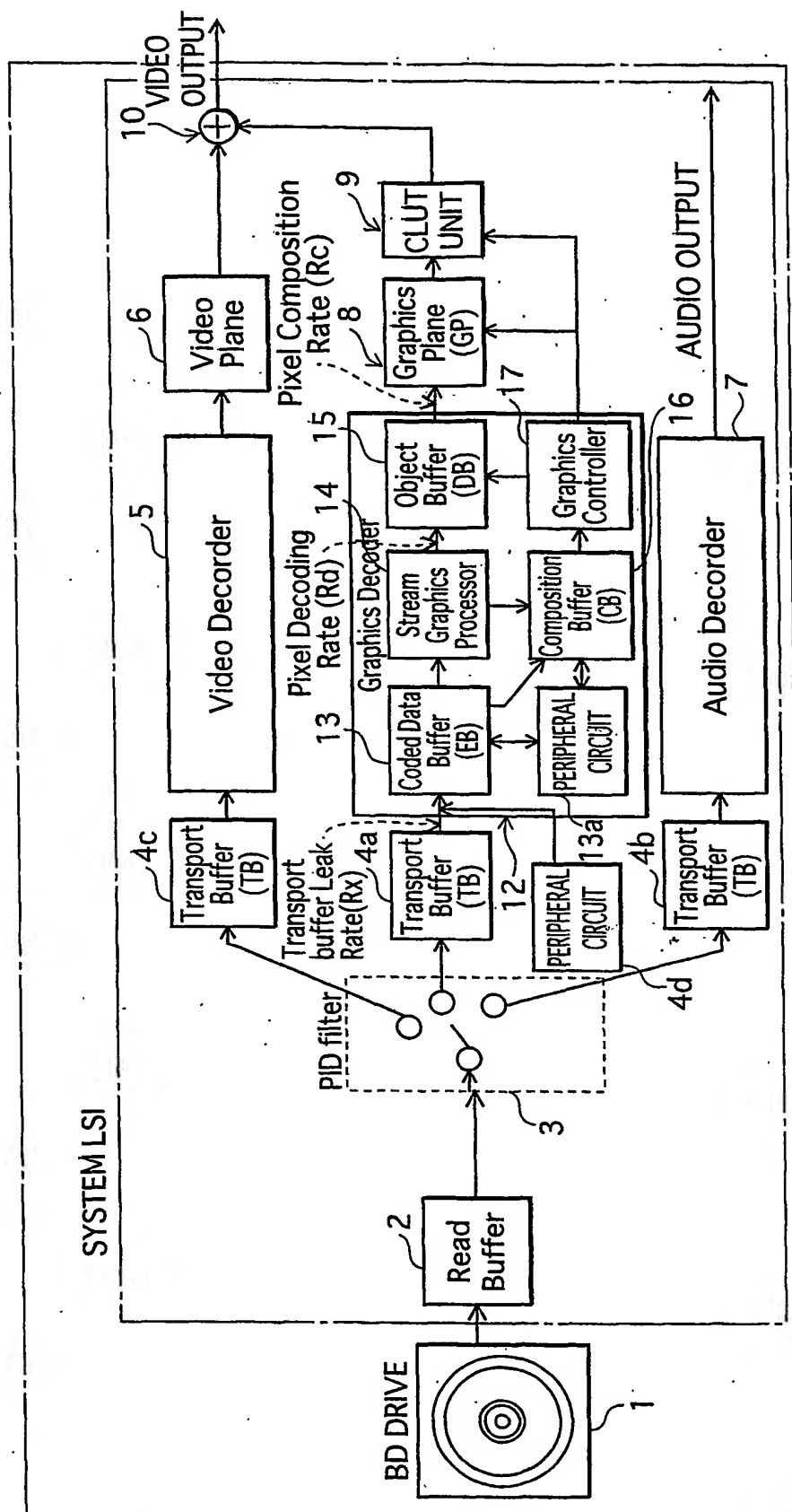
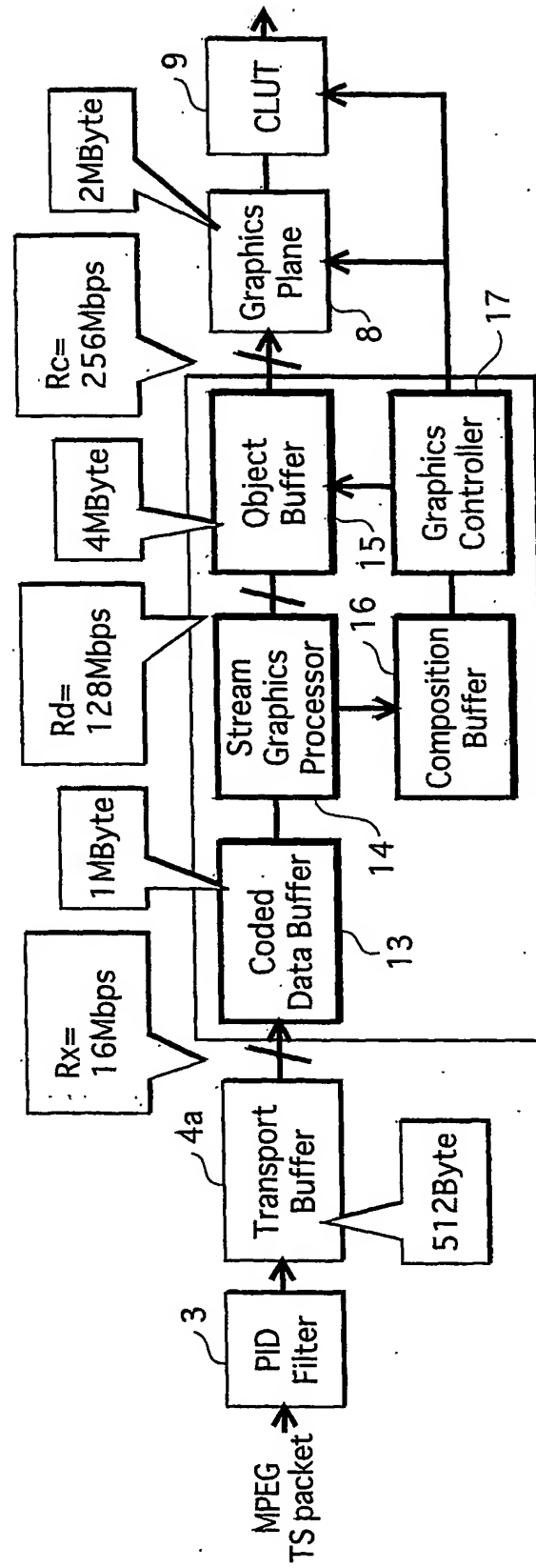
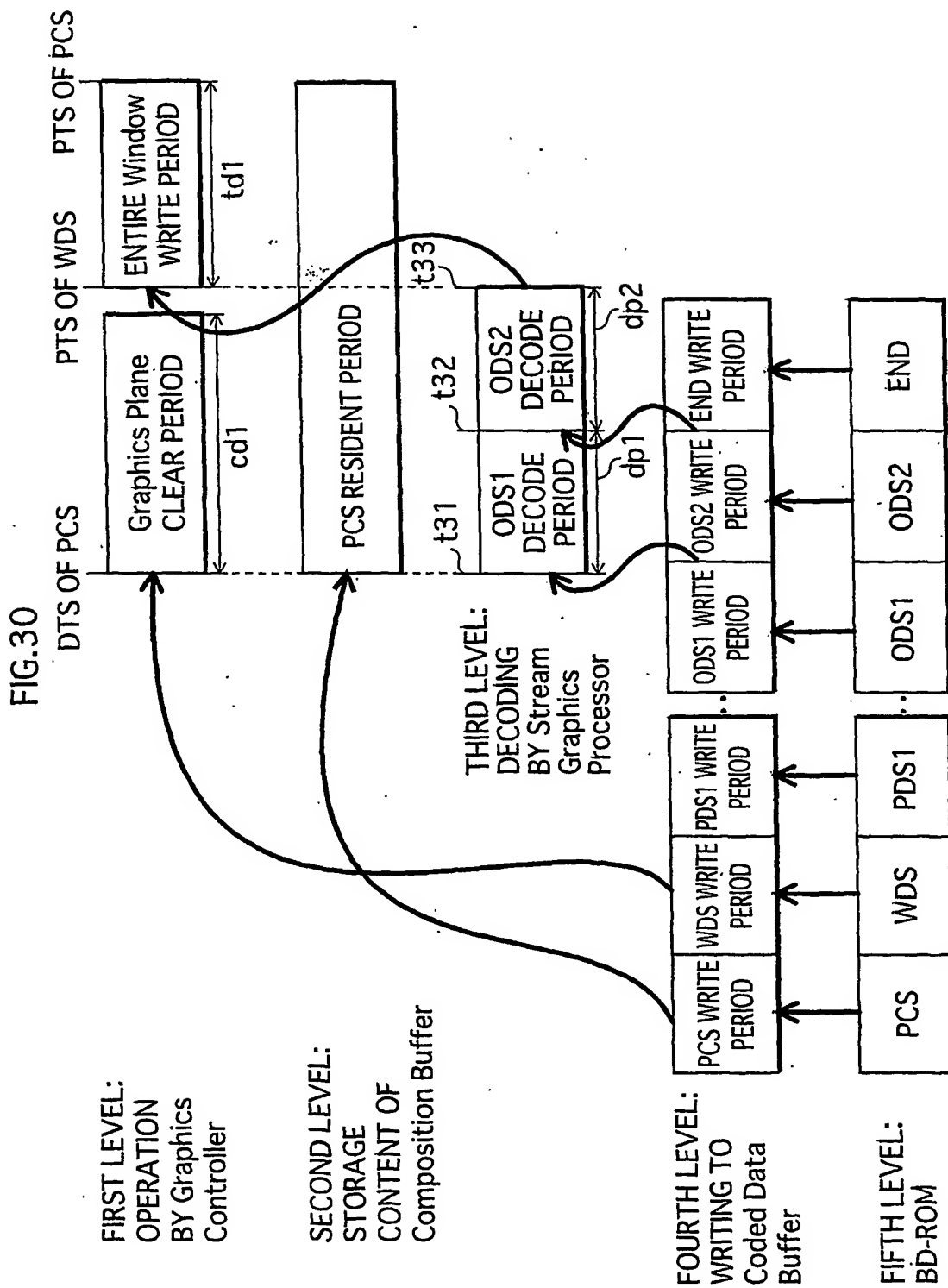
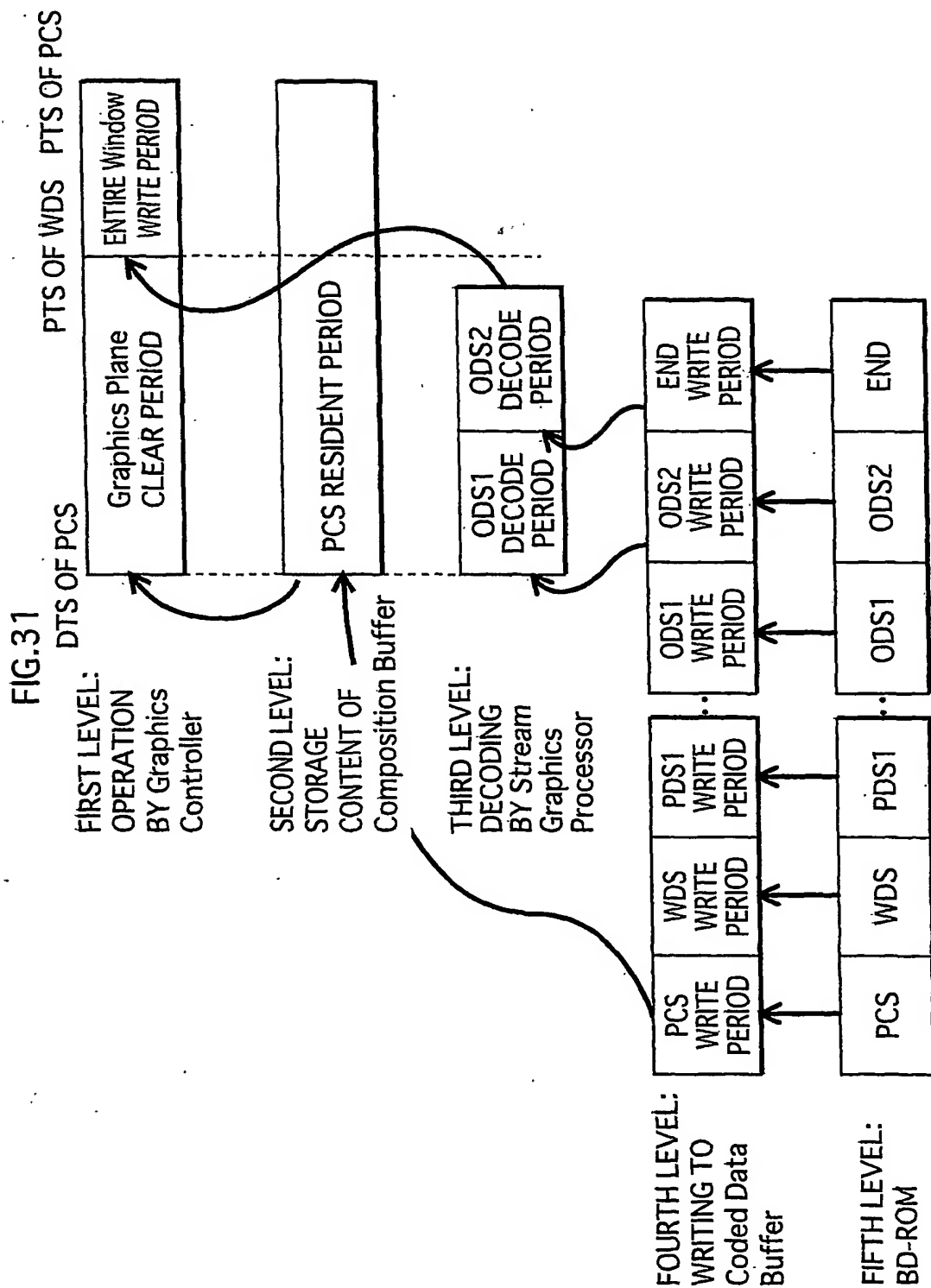


FIG.29







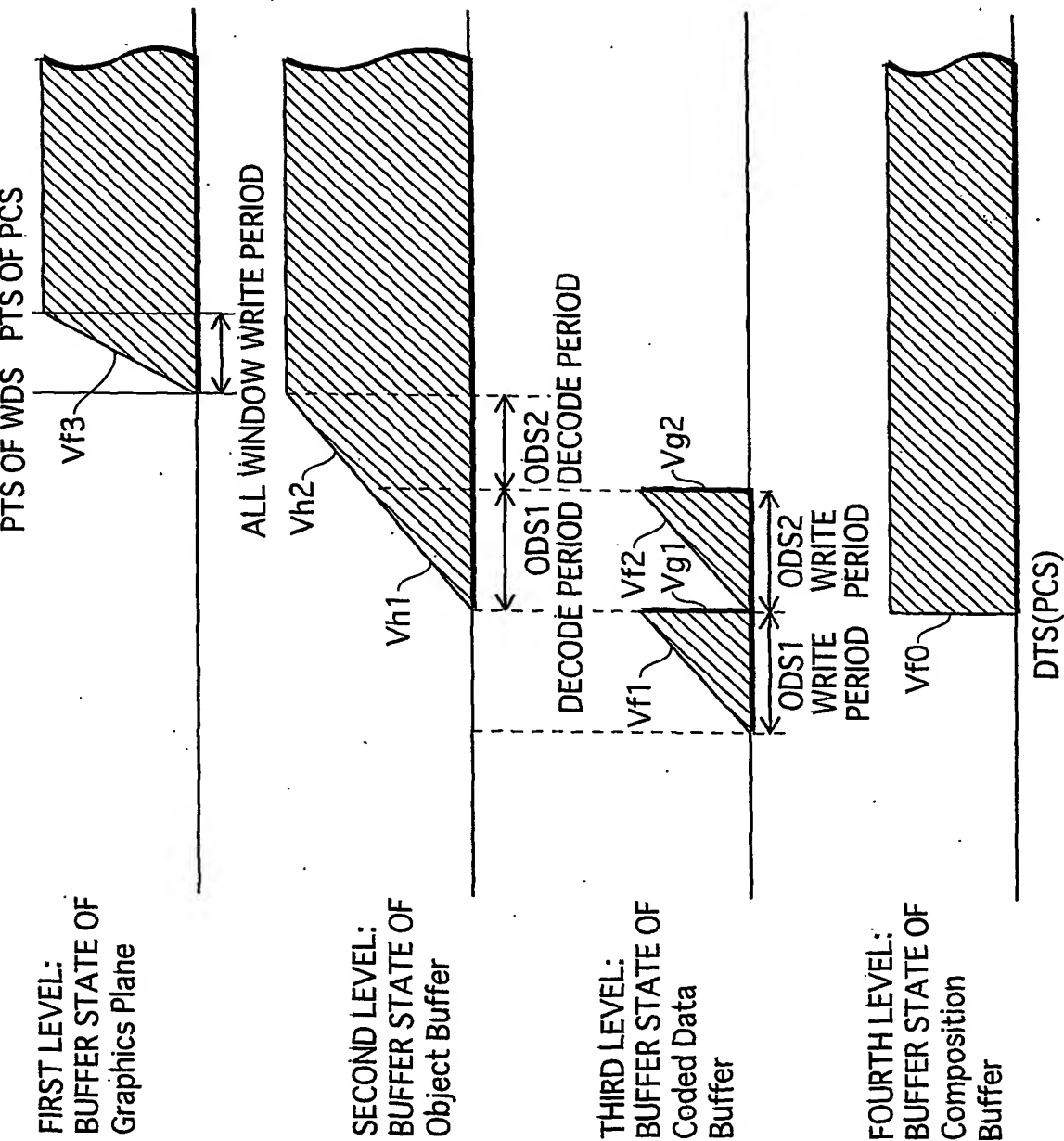


FIG.32

FIG. 33

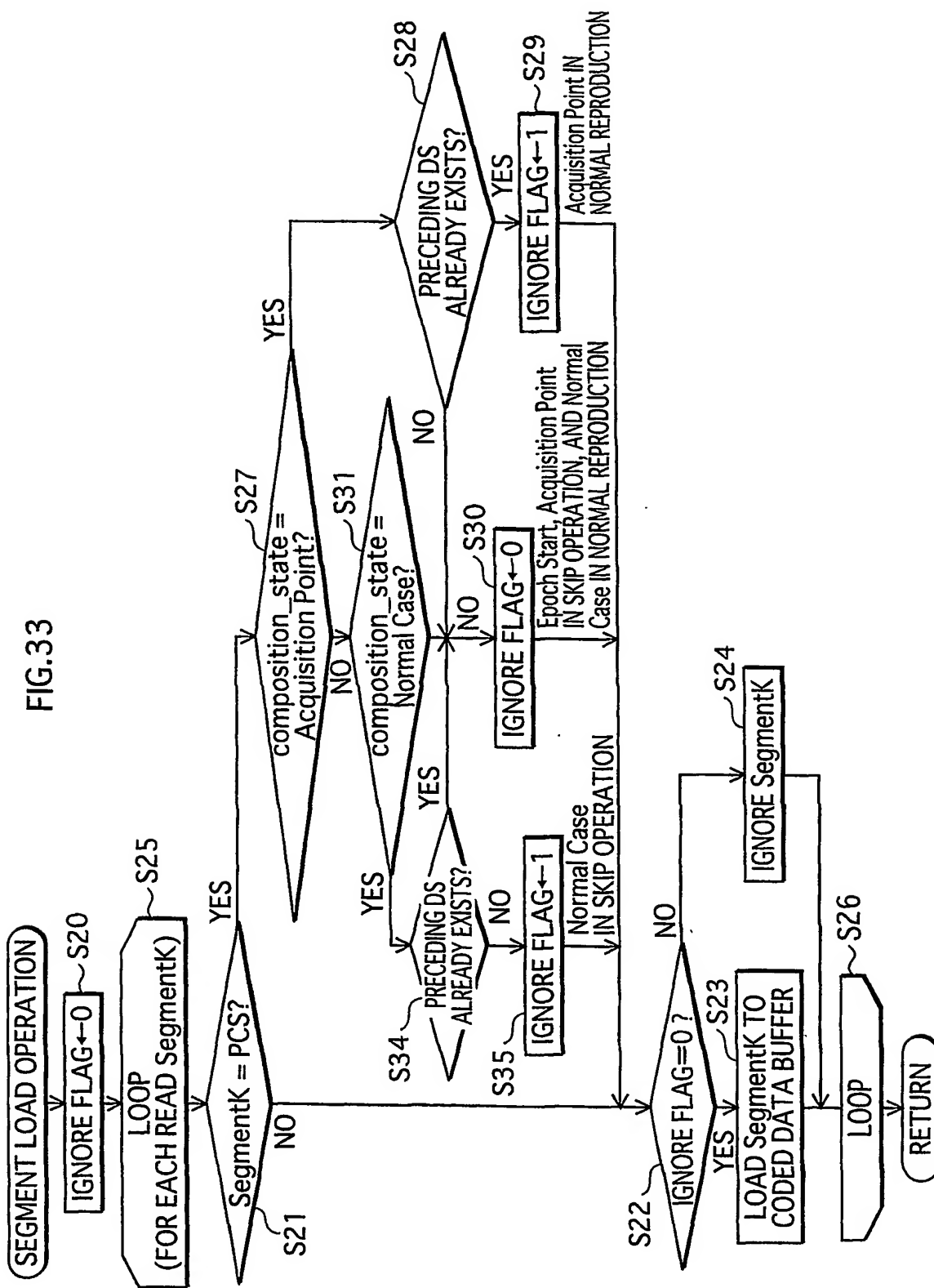


FIG.34

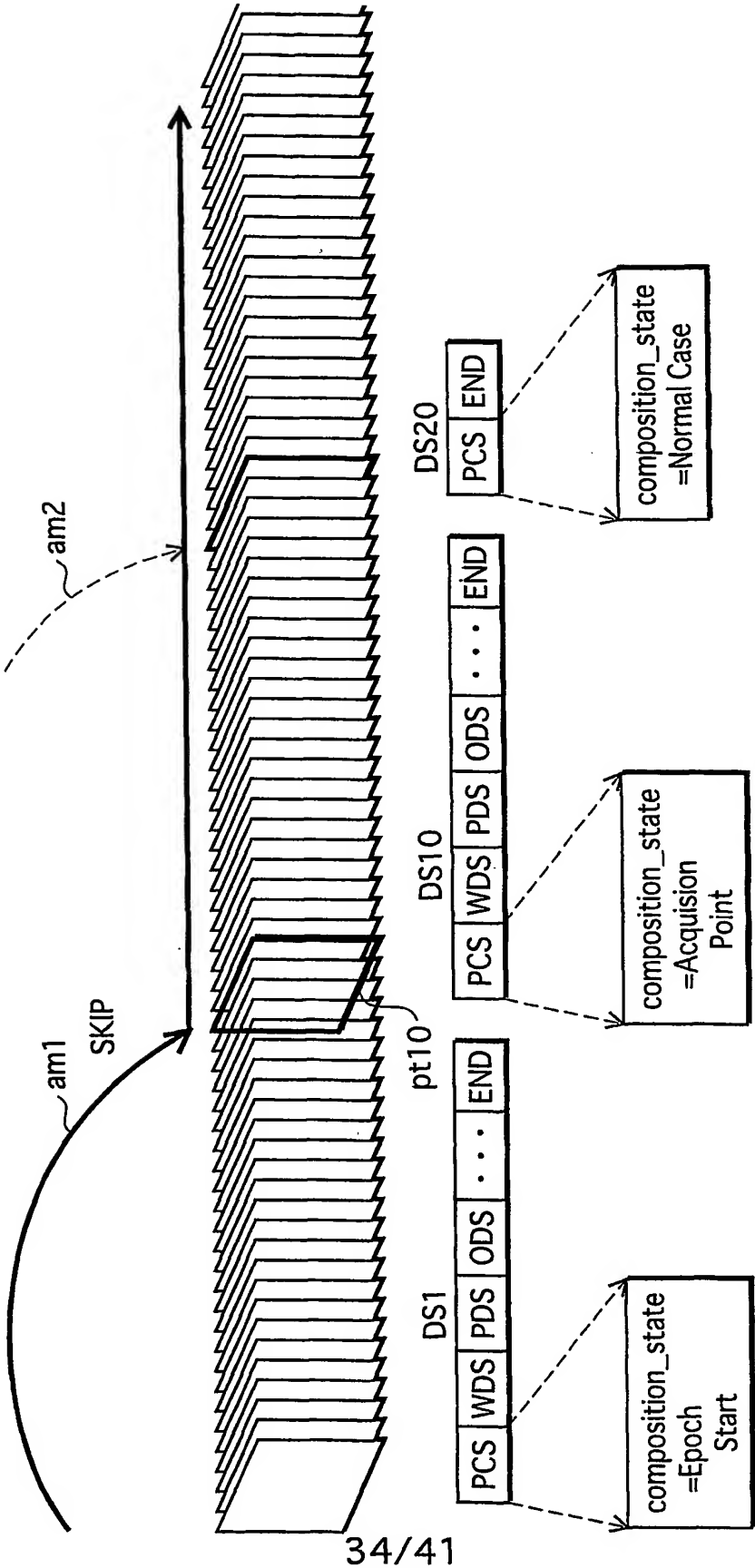


FIG.35

Coded Data Buffer IN REPRODUCTION APPARATUS

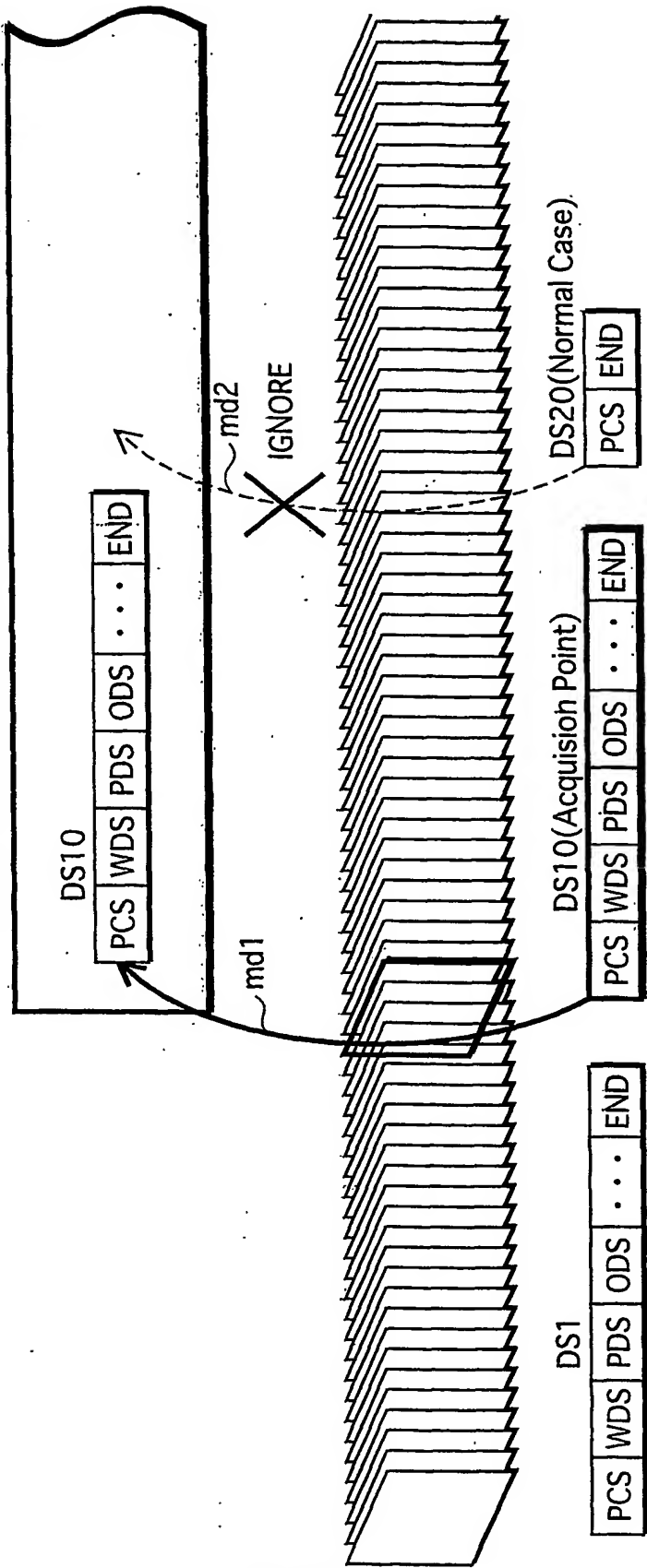


FIG.36

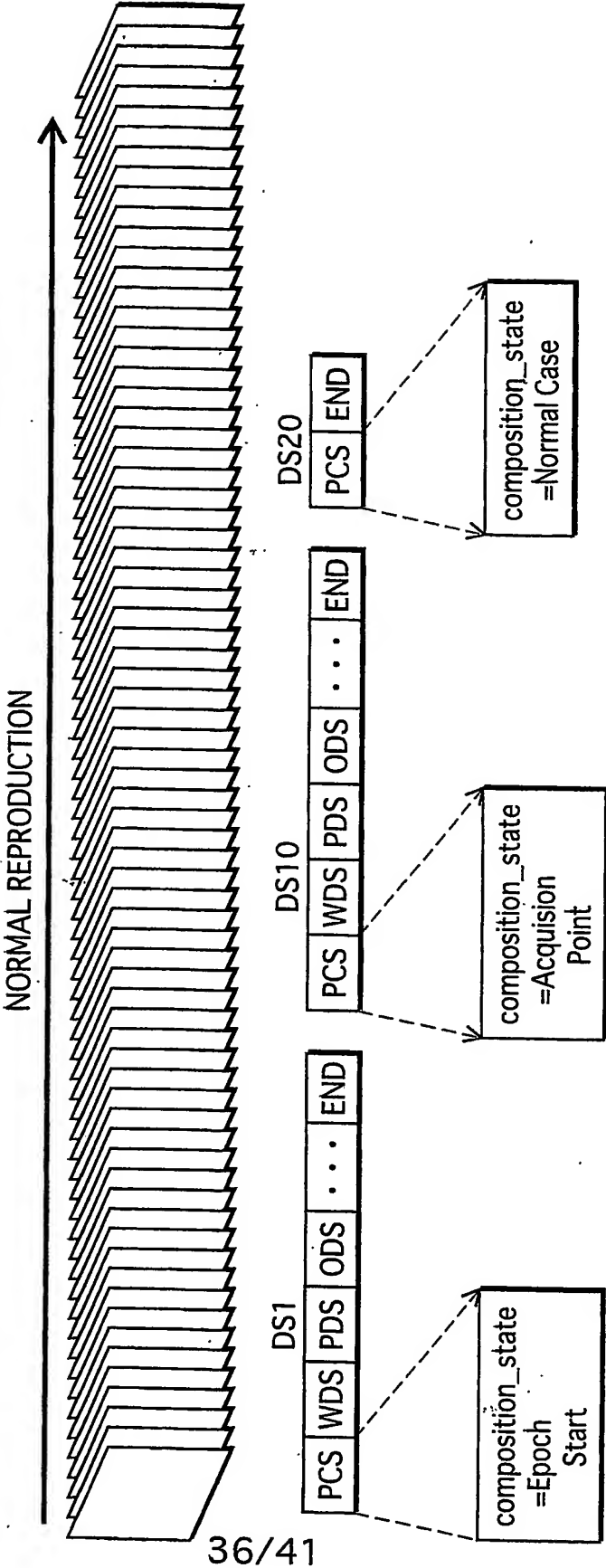
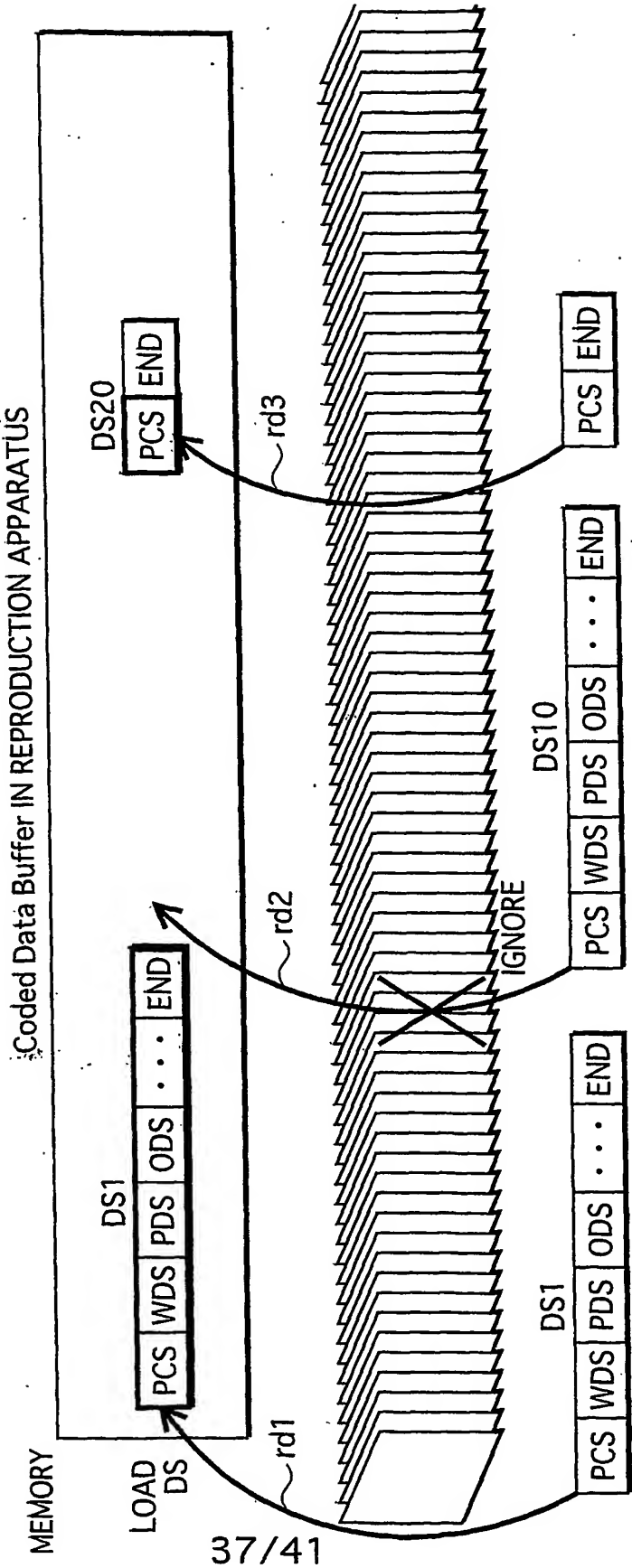


FIG.37



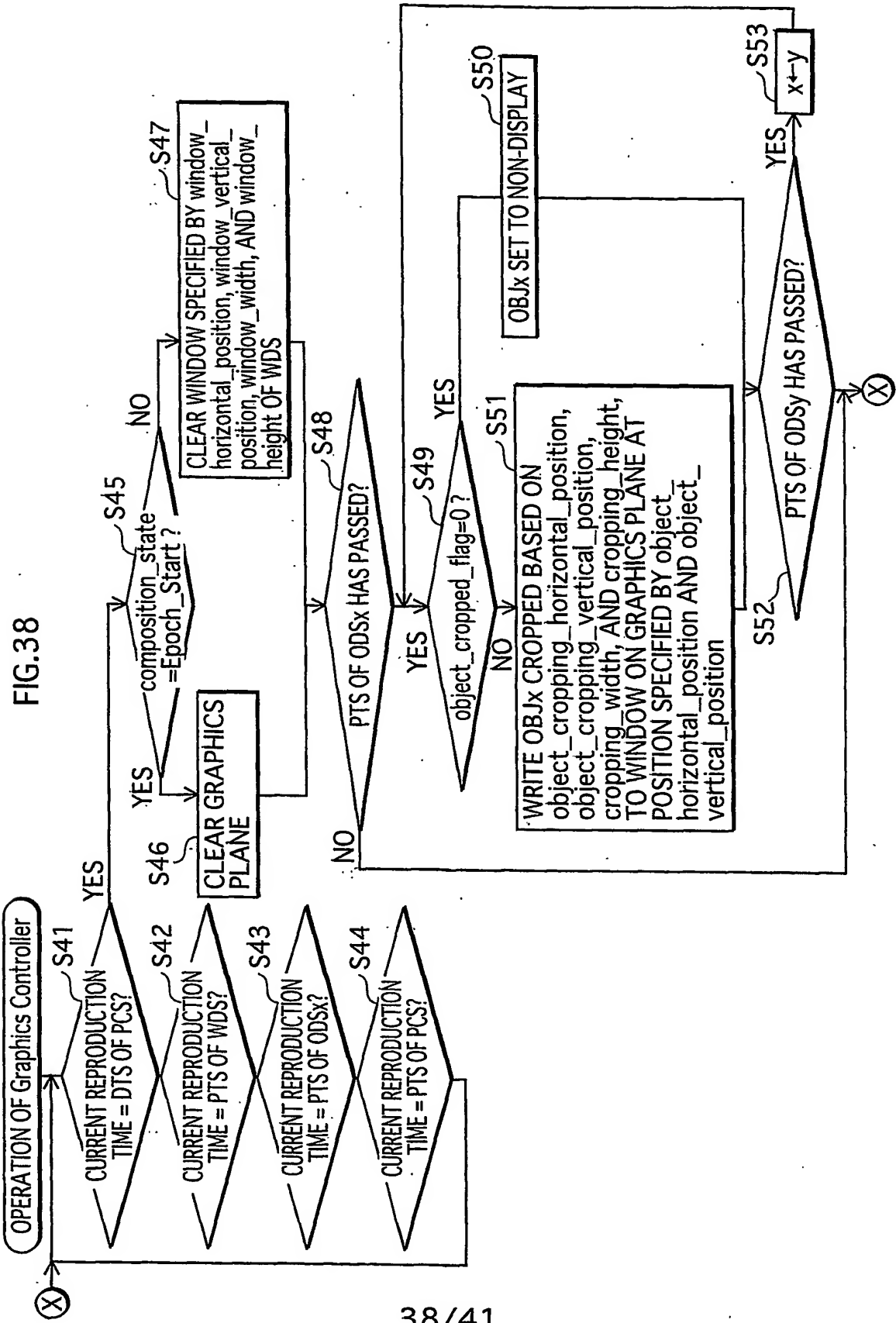


FIG.39

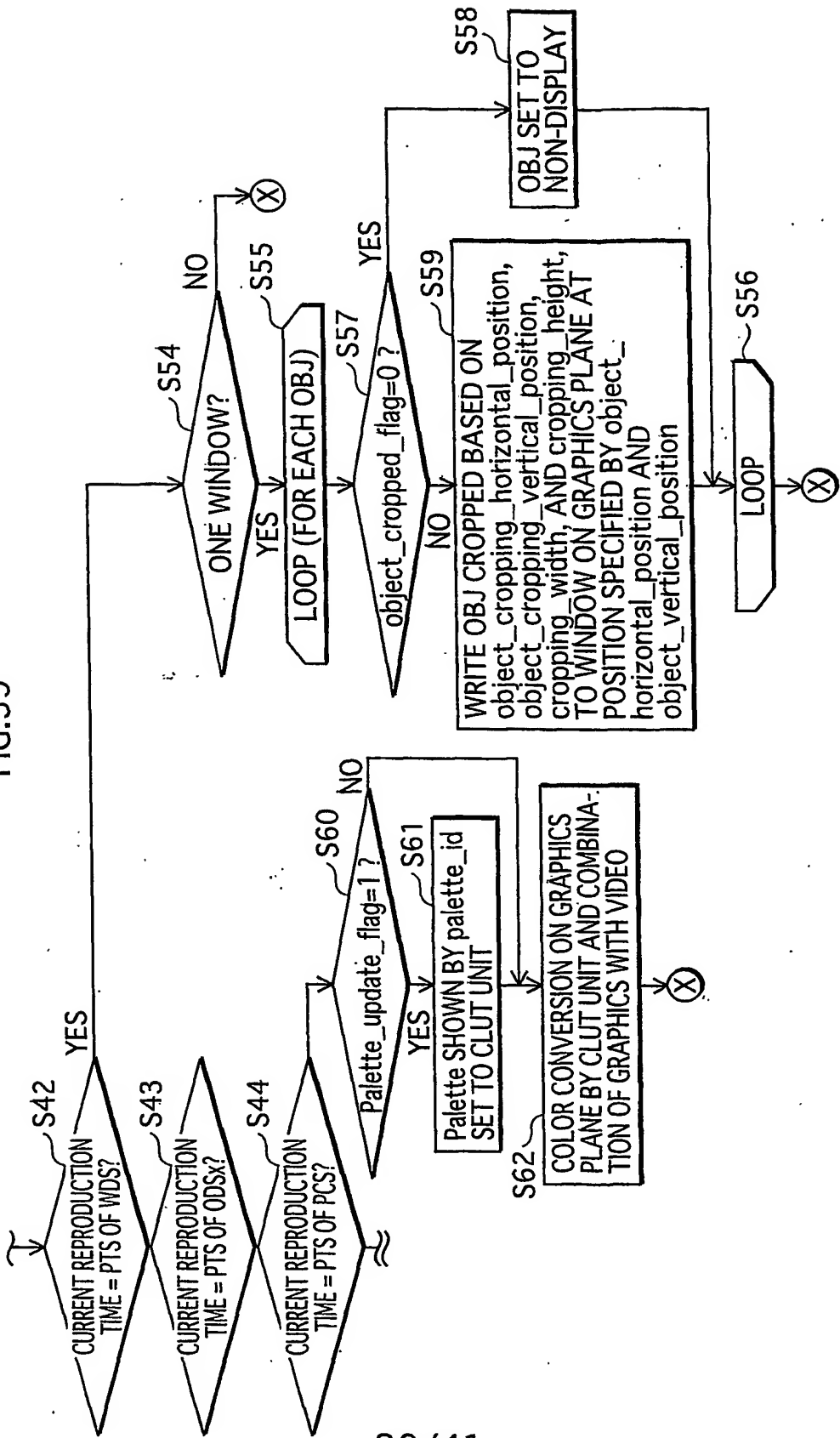


FIG.40

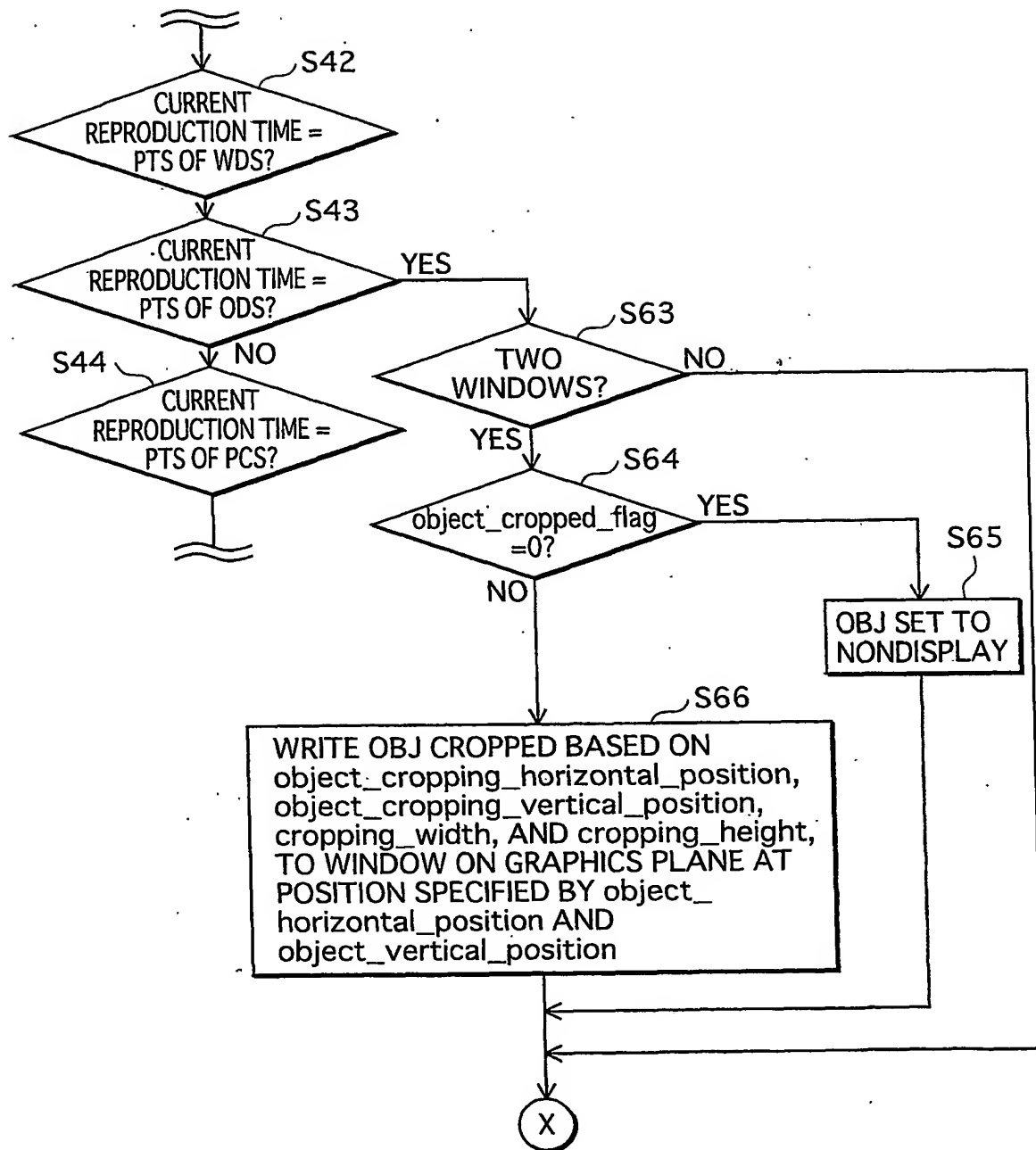


FIG. 41

